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ABSTRACT

The primary emphasis of the Texas Junior High School Study was the investigation of process-outcome relationships in 136 junior high school math and English classes. A total of 68 teachers were observed in nine junior high schools in a large urban school a district. Teachers also responded to a questionnaire and an interview focusing on presage variables such as teachers' beliefs, expectations, assumptions about teaching, and self-reports of instructional practices. Two outcome measures were used: an achievement test reflecting the subject matter taught, and student ratings of teachers. Volume I presents relationships among teacher self-report variables measured by the questionnaire and interview, and the two outcome measures. The findings for mathematics teachers indicated that successful teachers are committed to a structured, whole-class teacher- and textbook-centered approach. The findings for English teachers indicated a strong interaction between teacher effectiveness and student entering ability, and a lack of correspondence between cognitive and affective measures of teacher effectiveness. Other results are discussed in detail, and these findings are compared with previous studies of presage variables. (Author/BW)

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Texas Junior High School Study: Teacher Self-reports and Student Outcomes

Executive Summary

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May, 1980

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Texas Junior High School Study: Teacher Self-reports and Student Outcomes Executive Summary

This report presents relationships between variables measured by a teacher questionnaire and interview and two outcome measures of the Texas Junior High School Study, a large process-outcome field study conducted by the Correlates of Effective Teaching Program, Research and Development Center for Teacher Education, The University of Texas at Austin. This summary is intended to give the highlights of the findings from that study and to suggest implications for teaching and research. Readers interested in the details of the methodology and the relationships of specific classroom variables are urged to examine the full report (Evertson, Sanford, & Brophy, Note 1). Volume I of that report describes the background and methodology of the study and presents the teacher questionnaire and interview results with respect to math teachers and for English teachers. Volumes II and III present the multiple regression models in tabular form. Appendix A includes the instruments used. This report will summarize and discuss the teacher questionnaire and interview data. The first section will briefly review the methodology of the study as a whole. The second section will summarize and evaluate the questionnaire and interview results.

Background and Methodology

In a 1974 study of teaching effectiveness at the second- and third-grade levels (Brophy & Evertson, 1976; Evertson & Brophy, Note 2), questionnaires and interviews similar to those used in this study were administered to elementary school teachers. The presage variables found to be positively related to student achievement gains in that study were summarized as the

expression of a "can do" attitude, suggesting that more effective teachers took personal responsibility and had positive expectations for students' learning. They also expressed the belief that it was up to them to find other ways to teach their students, if their initial methods failed.

The Texas Junior High School Study '(TJHSS) was conducted by the Correlates of Effective Teaching Program at The University of Texas Research and Development Center for Teacher Education. The primary emphasis of this study was the investigation of process-outcome relationships in 136 junior high school math and English classes. Relationships among classroom process measures and student outcomes in the TJHSS were reported by Evertson, Anderson, and Brophy (Note 3). Other reports from the study discussed the stability of and contextual influences upon process measures (Emmer, Evertson, & Brophy, 1979). A total of 68 teachers (39 English and 29 math) were observed in nine of the 11 junior high schools in a large urban school Two sections were observed for each teacher. alternated visits to each of these classes, for an average of 20 1-hour observations throughout the school year 1974-75. During their visits, the observers collected both high- and low-inference data on classroom processes. At the end of the year, teachers responded to a questionnaire and participated in an interview focusing on presage variables such as teachers' beliefs, expectations, assumptions about teaching, self-reports and practices.

Two outcome measures were used in this study. The first was an achievement test designed to reflect the subject matter taught in the observed class-rooms. Students' scores on the math and English subtests of the California Achievement Test (CAT) given in the spring of the preceding school year were used to assess entering ability. The second outcome measure was Student



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Ratings of Teachers, completed by the students at the end of the school year.

These two outcome measures enabled us to assess teaching effectiveness in both cognitive and affective terms.

The class was used as the unit of analysis for reporting of all results. When data were collected for individual students, all of the available scores were averaged for each of the 136 classes. Tests of presage- and process-outcome relationships were conducted using linear regression equations for each of the potentially predictive teacher or classroom variables. The equations tested the degree of simple relationship of the variable to achievement gain or student ratings of teachers, and showed the degree of the variable's interaction with initial student ability.

A more extensive discussion of the background of this study, characteristics of the sample, or other reports using this data base, was reported in Volume I of the full report (Evertson et al., Note 1).

Summary of Results

Considered as a whole, the findings resulting from the teacher questionnaire and interview data were not consistently meaningful and useful. Interpretation of the 336 statistically significant variables was made very difficult by contradictions, isolated findings, interactions with ability levels of
classes, some ambiguous questions, and some even more ambiguous responses.
While some limitations were inherent in the teacher self-report format, others
could be attributed to weaknesses in the procedures and instruments used in
gathering and transforming the data. A number of questionnaire and interview
questions were poorly chosen or ambiguously worded. In addition, in order to
reduce lengthy teacher interviews to manageable units of information, interview data were subjected to several transformations. Information may have
been lost or obscured as interviewers condensed teachers' responses to take



notes (no tape recorders were used), or as responses were later analyzed and categorized to produce a response coding system for scoring these responses.

Despite these recognized limitations, the questionnaire and interview study resulted in a number of clear findings. In this section we will summarize what our results have to say about the characteristics and self-reported teaching practices of "good" junior high school teachers, with respect to both students' achievement and students' attitudes toward teachers. First we will summarize the results for math teachers, then we will discuss the results for English teachers. We will also consider differences in the results with respect to ability levels of classes for both subject areas. Finally, we will assess the extent to which these presage find igs compare and/or add to previously reported results obtained with the process measures in this study.

Findings for Mathematics Teachers,

Linear regression analysis of the 598 questionnaire and interview variables for math teachers resulted in 87 variables significantly related to math achievement and 115 variables significantly related to student attitudes toward teachers. There was a relatively high correspondence between results with respect to the two product measures (achievement and student attitude) in the math classes. Presage variables associated with high achievement were never also associated with negative student attitudes toward teachers in our math sample: Teachers having high average gains in math achievement were also rated high in generalized likability by their students. A plausible interpretation of this trend is that students recognize the goals of mathematics study and respond positively to those teachers who help them meet those goals.

In general, results for both achievement and attitude measures indicated that successful math teachers are likely to voice commitments to a structured,



whole class, teacher and textbook-centered approach. Results clearly did not support the use of ability grouping, small group instruction, or peer tutoring. Results did support the use of a "no frills" program featuring regular textbooks and homework. Effective math teachers reported self-confidence and self-reliance with respect to classroom control and behavioral problems. They reported that they accept personal responsibility for management and discipline in their classes. They indicated that they communicate rules and clear expectations to their students, and that they enforce due dates for student work.

Effective math teachers in our sample also reported they were self-reliant diagnosticians, and saw themselves as objective evaluators and graders. They reported using teacher-made or commercial instruments to diagnose student learning problems and progress. They did not favor reliance on subjective criteria or opinions of other teachers, counselors, or parents.

Math teachers who indicated that they valued affective relationships with students, and teachers who emphasized trust, caring, and affective objectives of teaching, were likely to be well-esteemed by their students. This general trend seemed reasonable but was not related to achievement results. Teachers' expressed willingness to work with counselors was also related to student liking of the teacher, but not particularly related to achievement.

Effective teachers expressed realistic attitudes and expectations about parents' roles. They said they did not rely on parents' tutoring students, and they said they viewed the most important parent role as that of providing a warm, supportive home atmosphere.

Math teachers with more progress toward a graduate degree appeared to be less effective in producing achievement gains among their students. Improperly placed or discontented professionals may see graduate study as a way out



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of the classroom. At any rate, it appears to be associated with lessened commitment to or effectiveness in producing students' learning in math.

Findings for English Teachers

Multiple-regression analysis of the questionnaire and interview variables for English teachers resulted in 73 variables significantly related to achievement in English classes, and ill variables significantly related to student liking of the teacher. In general, results for English classes were harder to interpret than those for math classes. One reason for this difference is that in English classes, the pretest (CAT) accounted for an extremely high proportion (85%) of the variance on the posttest. Students' success on the achievement test appeared to depend more on students' background than on learning in the English classroom. Perhaps this fact was not surprising considering the wide range of entering ability of students in the study. Many of the students were not native English speakers. Another interpretation is that our English achievement test may have failed to measure what was actually taught in many classes.

The English data were further complicated by the presence of a large number of interaction effects, particularly with respect to achievement. Over half of the 73 variables significantly related to achievement were differentially related with respect to mean entering ability of classes. This pattern of results itself has significance: Teacher characteristics or teaching practices which appear to work with high-ability classes do not necessarily work for low-ability classes. Effective English instruction appears to vary more with ability levels of students than does effective math instruction.

Another generalization clear from the English data is that in English classes, liking of the teacher does not seem to depend on academic success in the class. There appeared to be little correspondence between variables

related to cognitive and affective measures. A number of variables describing teachers' attitudes and practices showed clearly contrasting relationships with achievement and student liking of the teacher. Such lack of correspondence may reflect confusion about the goals and purposes of English instruction. Certainly, English curriculum varies much more than does math curriculum. There is often little consensus, even among teachers within a single school; a wide range of activities may be justified as legitimate parts of an English class. Students enjoy and respond positively to many activities and teachers, without respect to whether they help in passing standardized exams.

Because of the lack of correspondence between cognitive and affective measures, we will describe "good" English teachers in terms of two separate categories: those that appear to effect achievement gains among their students and those that are well-liked by their students. In general, effective English teachers (in terms of achievement) are likely to express a fairly traditional orientation. They reported using a whole-class approach and district-adopted textbooks. They said they stress punctuation and capitalization in student papers. They do not report using very much peer tutoring, small class discussions, acting, or role-playing in their classes. They said they prefer structured classroom environments with assigned seating and rules against bringing food or gum to class. They reported being fairly demanding with respect to students' paying attention to instructions and making up missed work. Like effective math teachers, they reported that they stress the importance of objective evidence in testing and evaluation of students. indicated a willingness to work with school counselors when necessary. Experience in teaching was positively related to achievement, especially among low-ability students.

7.

The picture that our results gave us of well-liked English teachers was very different than that for teachers with high-achieving students. Well-liked teachers were somewhat less formal and traditional. They reported using some peer tutoring and role-playing in their classes, and they said they do not stress a lot of spelling activities and objectives. They saw their role as teachers as very active. They said they were not very concerned with maintaining formal or "proper" teacher roles in the class. They reported they used some form of individualizing, with different assignments and expectations to cope with varying student ability in their classes. They stressed the use of objective criteria for evaluation, especially among high-ability classes. Progress towards a graduate degree was negatively related to student actitude toward teachers.

Interactions With Ability Levels of Classes

The number and nature of interactions with ability levels of classes were very different when results for math classes and English classes were compared. As noted previously, teaching objectives and strategies of effective teachers appeared to vary more with ability levels of students in English classes than in math classes. However, there were some interesting commonalities and contrasts.

Interactions with respect to the English data showed that when high-ability and low-ability classes were compared, effective teachers of low-ability classes were more likely to report the use of district-adopted text-books, peer tutoring, more relaxed classroom atmosphere, working with counselors, and a "team" faculty structure. One important pattern was that in low-ability classes, students appeared to beneat more from teachers' persistence in dealing with students who were nonparticipants or nonworkers. This pattern was in direct contrast to results with math classes. In lower-ability

math classes, variables describing persistent teacher pressure on nonworkers and nonparticipants were related to low achievement. In addition, in low-ability math classes reported high teacher expectations and high pressure situations were associated with negative student ratings of teachers. These trends may be related to the high incidence of "math anxiety" among lower-ability students. One commonality between English and math interactions was the importance of reports of using district-adopted textbooks with students in lower-ability classes.

Comparison of Presage-outcome Results with Process-outcome Results

In general, results obtained for the questionnaire and interview data were consistent and supportive of those found with the process measures in the study (Evertson et al., Note 3). This general consistency lends credence to the teacher self-reports of instructional practices in the questionnaire and interview. For example, both the process-product and presage-product results for math classes supported a whole-class approach, a structured, task-criented environment, and teachers who were active and dominant. In both sets of results, there was a relatively high correspondence between variables related to achievement and to student liking of the teacher in that classroom. Both sets of data indicated that in low-ability math classes, students liked and benefited from a more relaxed classroom atmosphere than in high-ability classes.

Comparison of process product and presage-product findings in English classes resulted in less clear patterns, but some overall consistency. Both sets of data suggested that effective English teachers used different patterns of teaching with high-ability versus low-ability classes. Both showed relatively little correspondence between cognitive and affective measures, with

students liking teacher characteristics and teaching strategies not always associated with achievement gains.

In comparing results achieved with the process measures and the presage measures, it became clear that the two approaches, well-used, are complementary. The process-product approach yielded many specific findings not reliably investigated with the presage-product approach. On the other hand, the presage-product approach resulted in some significant patterns of findings not obvious from the process-product data. For example, significant results were obtained for a number of questionnaire and interview variables relating to teachers' attitudes toward and contacts with school counselors, other teachers, and parents of students. Process measures probably would provide little evidence concerning these areas. Process measures might also miss some aspects of teachers' strategies for coping with nonworkers. Another area in which significant patterns of results were found with the presage data and teacher self-reports was that of diagnosing learning problems, evaluating srudent progress, and grading. Some, but not all, of the potentially important information in this area would be accessible by process instruments. Presage variables relating to such teacher characteristics as years of experience and graduate training, and teachers' attitudes toward their affective relationships with students also contributed some information which would have been missed had only process measures been relied upon.

On the other hand, a large number of the questionnaire and interview variables described teaching practices, more accurately measured by the process approach: instructional organization, presentation and enforcement of rules, and the nature and number of teacher-student interactions in class. Where discrepancies exist between process-product and presage-product findings for specific classroom practices, the process-product results are presumably more

reliable. Some discrepancies might be expected and explained by lack of teacher awareness an /or objectivity in assessing classroom events. Results of this study, however, lend some support for confidence in the general accuracy of teacher self-reports.

Implications for Teacher Research

A long history of educational research has proven that research on presage and teacher self-report variables is an inadequate approach to the study of teaching. Previous research utilizing presage measures (Dunkin & Biddle, 1974) defined presage variables as those relating to "teacher formative experiences, teacher-training experiences, and teacher properties," properties being "measurable personality characteristics the teacher takes with him/her into the teaching situation." As many reviewers have pointed out, research on presage variables of teaching has been abundant, but not very productive, overall. Variables investigated have included training procedures or programs, ratings and inventory scores of personality traits or teaching ability, academic background, demographic variables, attitudes toward pupils, and teachers' expectations for pupils' achievement (Dunkin & Biddle, 1974; Getzels & Jackson, 1963; Hook & Rosenshine, 1979). The Minnesota Teacher Attitude Inventory has been used repeatedly to investigate teachers personality characteristics and beliefs and their relationship to effective teaching, but findings are not impressive (Dunkin & Biddle, 1974; Getzels & Jackson, 1963). However, results obtained with the questionnaire and interview in this study indicate that presage measures may be used fruitfully in conjunction with other measures of classroom process.

Taking into account results reported herein, the following seven aspects of teaching are recommended for further study with presage-product approaches and (where applicable) process-product strategies. Each area was selected for

recommendation because it met two criteria: First, it was an aspect of teaching for which significant presage-product relationships were found with the questionnaire and interview in this study, and second, it encompasses teacher characteristics or teaching practices not always easily assessed through direct observation.

- 1. Teacher contacts with and attitudes toward school counselors, principals, other teachers in the school, and parents. Teachers' reliance on school counselors and on parents was significantly related to one or both of the product measures in both math and English classes. The significance of team faculty structures encouraging teacher-to-teacher cooperation appeared to vary with the ability level of classes. Teachers' contact with principals was not investigated in this study, but probably should have been. Information about all such teacher contacts would be difficult to obtain by direct observation.
- 2. Teachers' attitudes toward and strategies for dealing with nonworkers and nonparticipants. A number of variables related to this aspect of teaching were significantly related to one or both of the product measures in both math and English. In both subject areas, ability levels of classes appeared to be a significant factor in this respect. While some aspects of these teaching behaviors could be measured by classroom observation, others could not.
- 3. Evaluating and grading students and diagnosing learning problems. Significant relationships were found for both math and English classes in this area. While some aspects of this teaching activity can be assessed through observation, others cannot.
- 4. Objectives of teaching and selection criteria. Several related variables were found to be significant in both math and English classes. In English classes, variables related to composition criteria (reflections of teach-

ing objectives) were found to be differentially significant according to entering ability of class.

- 5. Curriculum materials used. Use of district-adopted textbooks appeared to be a significant factor in both math and English classes. This area of teaching is most easily investigated through teacher self-reports.
- 6. Teacher characteristics such as teaching experience and graduate education. Some interesting relationships were found for these two simple presage variables. The negative relationship found between teachers' level of graduate education and achievement in math classes, and between graduate education and students' liking of teachers in English classes, bear further study.
- 7. Preparation and attitude toward substitute teachers. While the import of this aspect of teaching is not readily apparent, clear relationships were found between related variables in both achievement and student attitude in math classes, as well as student attitude in English classes. Teacher preparation for substitutes may be a good indicator of teachers' commitments to students' using time productively. It may also say something about teachers' attitudes toward their job.

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Texas Junior High School Study:

Teacher Self-reports and Student Outcomes

Volume I

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May, 1980

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TEXAS JUNIOR HIGH SCHOOL STUDY:

TEACHER SELF-REPORTS AND STUDENT OUTCOMES

CHAPTER 1 3

BACKGROUND AND METHODOLOGY

This report presents relationships among teacher self-report variables measured by a teacher questionnaire and interview and two outcome measures from the Texas Junior High School Study (TJHSS), conducted by the Correlates of Effective Teaching Program at the Research and Development Center for Teacher Education, The University of Texas at Austin (1974-75). The questionnaire and interview data consisted primarily of presage variables: data about teachers' characteristics, experience, expectations, attitudes, and assumptions, as well as teachers' reports of their instructional practices. data were included in the larger study of junior high math and English classes for two reasons. First, it was assumed that teachers' statements about their instructional practices (accurate or not) would reflect their commitments and assumptions concerning teaching/learning within the real context of their junior high classes. Second, it was hoped that teachers' self-reports of instructional practices related to planning, evaluation, grading, and teacherteacher or teacher-parent interactions would provide information which might otherwise be unobtainable through direct classroom observation. For the sake of convenience, all the data gathered with the teacher questionnaire and interview shall be referred to in this report as presage data.

Previous research utilizing presage measures (Dunkin and Biddle, 1974) defined presage variables as those relating to "teacher formative experiences, teacher-training experiences, and teacher properties," properties being "measurable personality characteristics the teacher takes with him/her into the

teaching situation." As many reviewers have pointed out, research on presage variables of teaching has been abundant, but not very productive, overall. Variables investigated have included training procedures or programs, ratings and inventory scores of personality traits or teaching ability, academic background, demographic variables, attitudes toward pupils, and teachers' expectations for pupils' achievement (Dunkin & Biddle, 1974; Getzels & Jackson, 1963; Hook & Rosenshine, 1979). The Minnesota Teacher Attitude Inventory has been used repeatedly to investigate teachers' personality characteristics and beliefs and their relationship to effective teaching, but findings are not impressive (Dunkin & Biddle, 1974; Getzels & Jackson, 1963).

Dunkin and Biddle (1974) offered several alternate explanations for the historical failure to get useful results from presage research. One was that much presage research has concentrated on weak variables, such as personality traits measured by psychological inventories focusing on factors other than the processes of teaching, ratings (often of questionable validity) by supervisors or others, and experimental training procedures reflecting commitments unsupported by empirical data. In discussing the kinds of presage variables most likely to be related to classroom events, the authors proposed:

Much of teaching is presumably coping behavior on the part of the teacher and is thus subject to beliefs held by the teacher concerning the curriculum, the nature and objectives of the teaching task, expectations for pupils, and norms concerning appropriate classroom behavior. (p. 412)

The variables suggested above correspond quite accurately to the categories of presage variables included in the Texas Junior High School Study questionnaire and teacher interview.

In a 1974 study of teaching effectiveness at the second- and third-grade levels (Brophy & Evertson, 1976; Evertson & Brophy, Note 1), questionnaires and interviews similar to those used in this study were administered to

elementary, school teachers. The presage variables found to be positively related to student achievement gains in that study were summarized as the expression of a "can do" attitude, suggesting that more effective teachers took personal responsibility and had positive expectations for students' learning. They also expressed the belief that it was up to them to find other ways to teach their students, if their initial methods failed.

The presage instruments for the Texas Junior High School Study were designed to assess the extent to which similar teacher attitudes were related to both cognitive and affective student outcomes at the junior high level. These variables also differed from those in other presage-outcome studies in that variables were limited for the most part to those clearly related to curriculum decisions, instructional practices, or classroom management.

Background: The Texas Junior High School Study

The full study was conceived as a replication and extension of an earlier study of teaching effectiveness conducted at the second— and third-grade levels (Brophy & Evertson, Note 2). The earlier study suggested several effective strategies for teaching elementary school students, but it did not support several variables popular among educational researchers, such as indirect teaching, extensive use of class discussion, small group format, and pupil talk. One question arising from these results was that even though such strategies were not related to achievement in the early grades, would they become more important at the later grades when most "tool" skills should have been mastered and students are learning to apply them? Another question was, to what extent do contextual influences, such as subject matter or heterogeneity of student characteristics, affect such relationships? Therefore, the Texas Junior High School Study was designed as an effort at replication of the earlier process-outcome study, but at different grade

levels, and also as a more extensive examination of teaching variables that were related to both cognitive and affective student outcomes.

Relationships among classroom process measures and student outcomes in the TJHSS have been reported previously (Evertson, Anderson, & Brophy, Note 3). Other reports from the study have discussed the stability of and contextual influences upon process measures (Emmer, Evertson, & Brophy, 1979).

Methodology

The full study was designed to permit investigation of a large number and variety of variables which might be related to effective teaching at the junior high level: presage variables, context variables, and both low-inference and high-inference process measures. These were all linked to two different outcome measures. In all, 136 classes in nine schools were observed. They were chosen so that:

- 1. Two different but important school subject areas were included-math and English-making it possible to investigate differences in effective teaching strategies or teacher variables in different settings.
- 2. The nine junior high schools represented a wide range of socioeconomic status (SES) and achievement levels, making it possible to examine differences in effective teaching strategies for low-versus high-ability
 classes.
- 3. Each participating teacher was observed in two separate sections of his or her subject matter (math or English), allowing systematic attention to the question of teacher stability in process behaviors across classroom settings, as well as to the central question of teaching effectiveness as it was affected by grade, subject matter, student rex, and other context differences.

Description of teachers in the sample. A total of 68 teachers (39 English and 29 math) were observed in nine of the 11 junior high schools in a large urban school district. (Two other junior high schools were not included because they were using an exclusively self-paced mathematics program that allowed for very little public teacher-student interaction.) Because two sections were observed for each teacher, there were 136 classrooms in all. Two observers alternated visits to these classes, throughout the school year 1974-1975. (The actual range was from 16 to 22 observations.) Table 1.1 shows the distribution of observed math and English classes by grade levels. Table 1.2 shows the distribution of teacher sex and ethnicity.

Teachers selected for the study were those with at least one previous } ar of experience in their subject matter area. Student teachers, first-year teachers, or teachers who shifted into these areas from some other subject matter areas were not included.

The resulting teacher sample was unusually complete, and was reasonably free of volunteer effects or other sample bias effects, since nearly all the eligible faculty from each of the nine junior high schools participated.

Instruments

A variety of instruments was used to collect data in this study. They included process measures used by classroom observers to describe classroom events, two outcome measures assessing teaching effectiveness in terms of achievement in mathematics or English and attitudes of students toward the teacher and class, and two presage measures focusing on teachers' beliefs, expectations, and self-reports of instructional practices. (Examples of these are found in Appendix A.) This report focuses on the relationships between presage and outcome measures within each of the two subject areas.

Distribution of Observed Math and English Classes by Grade Level

Grade Level	' Math	English	Total
7th Grade	31	44 -	, 75 [·]
8th Grade	27	- 34	61
Total	58	78·	136

Note: Three teachers taught in both grades for math and two teachers taught in both grades for English.

Table 1.2

Distribution of Teacher Sex and Ethnicity

Teacher Sex

•	Math (%)	English (%)	Total (%)
Male	11 (38%)	5 (13%)	16 (23%)
Female	18 (62%)	34 (87%)	52 (76%)
Total	29 (100%)	39 (100%)	68 (99%)

Teacher Ethnicity

· · · · · · · · · · · · · · · · · · ·	Math (%)	English (%)	Total (%)	
Anglo	25 (86%)	29 (74%)	54 (80%)	
Mexican-american	0 ()	7 (18%)	7 (10%)	
Black	4 (14%)	3 (8%)	7 (10%)	
Total	29 (100%)	39 (100%)	68 (100%) -	

Description of Presage Measures

Teacher interview. The interviews were conducted individually by the classroom observers in May, 1975 at the end of the data collection period. The interview consisted of 88 questions. Math and English teachers answered identical questions, with the exception of six special items for each group. Interviewers manually recorded the teachers' answers during the interview. Later all teachers' responses were analyzed to find recurring answers and categories of answers for each interview item. In this manner, a response coding system was produced and then used to score all interview data for keypunching. The process yielded 483 response categories or variables.

Teacher questionnaire. The questionnaire consisted of 89 questions yielding 116 variables. Most of the items were in a multiple choice or Likert scale format and seven items requested biographical data. The teacher questionnaire was left with each teacher upon completion of the teacher interview, which was conducted at the end of the school term in which their classes, were observed. All of the teachers in the study filled out and returned their questionnaires.

Description of Outcome Measures

Two outcome measures were administered to the students at the end of the year: achievement tests in each subject area and Student Ratings of Teachers. In addition, the students' scores on the California Achievement Test (CAT) taken in the spring of the preceding school year were used as covariables in any analyses involving the outcome measures. This combination of cognitive and attitudinal (or affective) measures was chosen in order to examine two important but different objectives that teachers might set for students in junior high school. Using these data, it is possible to examine any possible

"trade-off" between cognitive learning and attitudes toward school and teachers that might exist.

Cognitive outcome measures: Achievement tests and CAT scores. Students' average scores on the math and English subtests of the California Achievement Tests given in the spring prior to observation were used to estimate entering ability. The scores for each class section were then averaged.

To obtain an estimate of achievement at the end of the year, tests were specially constructed for use in this study to measure knowledge of English grammar, word usage, punctuation, and spelling, and to measure knowledge of mathematical computation and reasoning.

These tests, which were administered during the first weeks of May, were designed to be content valid to the extent that the items reflected the subject matter being taught in the observed classrooms. Information on the subject matter covered was gathered from the content formats on observers' coding sheets. Also, observers were given copies of the tests, and they noted for each item whether or not its content was covered during their observation periods. Copies of the district-adopted texts were also consulted.

The tests were piloted in two math and two English classes in another school district, in order to judge the amount of time required to complete the tests, to adjust the item wording, and to clarify instructions. After the tests were revised and final copies were prepared, they were administered to students in each of the 136 classes.

Prior to the administration of the tests, students were asked to fill out the student rating forms mentioned previously. These were collected, and then the achievement tests were distributed. Students were allowed approximately 45 minutes to take their respective tests. No student received a perfect score, and only a small percentage of students completed their entire tests.

While each student received a single total score, the individual test items were also scored. This information was preserved so that item analyses could be performed. Items that did not discriminate were eliminated before students' aggregate scores were computed.

Affective outcome measures: Student Ratings of Teachers. At the end of the school year, students were asked to fill out nine 5-point rating scales about their teachers. These scales included essentially two types of items: those assessing general liking of the teacher ("I would go to this teacher if I had a problem.") and those assessing the degree to which the student felt he/she learned the subject matter ("I learned a lot from this teacher."). All students filled out these assignments. When the nine items were factor-analyzed, one general factor emerged which was named "generalized likability" or general liking of the teacher. This general factor was used as an affective or attitudinal criterion to which all other measures could be compared,

Analytic Methodology

Examination of various prediction models through multiple regression techniques led us to single out "class mean CAT" (adjusted achievement scores from a given classroom for the average CAT for the classroom) as the covariable to be used for testing additional regression models constructed to determine which teacher or classroom variables were related to gain in mathematics and English achievement and to student attitude. The class mean CAT control allowed us to use all available scores and to control for school differences, tracking within schools, and grade levels. In other words, once class mean CAT was entered into the prediction equation, these latter variables did not add to the prediction of class mean achievement or student ratings of teachers. For a more detailed explanation of the process and rationale for selection of the class mean CAT covariable, see Evertson et al. (Note 3).

Preliminary analyses revealed that two of the math classes had extremely high entering CAT scores and math achievement test scores, thus reducing variance between entering and exiting measures. In addition, three English classes had scores at the top of the CAT's possible range. These five classes were dropped from subsequent analyses.

In order to determine the degree and direction of presage-outcome relationships, to determine whether the relationships were comparable to different levels of initial ability, and to determine whether the relationships depended on subject matter, each class section was treated separately in the analyses, and all analyses were conducted separately for math $(\underline{n} = 56)$ and English $(\underline{n} = 75)$.

Data analyses treated each class as a distinct unit rather than pooling the two classes for each teacher, because inferences about teacher effects were restricted to those specific to individual classes. This was considered necessary in view of marked differences between classes of the same teacher, where a teacher might be effective with one group and not with another. Pooling the two classes for each teacher could mask these possible differences.

Test's of presage-outcome relationships were conducted using linear regression equations for each of the potentially predictive teacher self-report variables. The equations tested the degree of simple relationship of the variable to achievement gain or student rating of the teacher and also the degree of the variable's interaction with initial student ability. The three regression equations used are shown below. As indicated, each produces a squared multiple correlation coefficient, and selected comparisons of these \mathbb{R}^2 values yield \mathbb{F} -ratios and associated probability values that test whether particular variables improve the prediction of class mean achievement.



Post Ach = Pre CAT + CB + (CB) (CAT) +
$$E_1$$
 R_1^2
Post Ach = Pre CAT + CB + E_2 R_2^2
Post Ach = Pre CAT + E_3 R_3^2

Where:

"Post" is the criterion achievement test given at the end of the school year;

"Pre" is the CAT measure of initial ability;

"CB" is the particular teacher variable being assessed; and

"E" represents errors of prediction.

Each equation is solved for a set of weights that minimize the E values, thus maximizing $\underline{\mathbb{R}}^2$, which is an index of the amount of criterion variance associated with the predictor variables in the equation.

The R² associated with the first equation must equal or exceed that of the second, which must in turn equal or exceed that of the third, because each equation contains successively less information (i.e., fewer variables). The product variable in the first equation represents the interaction of initial ability and teacher characteristics or behavior, and the first F-lest therefore assesses whether the relationship is the same at all levels of initial ability. The second model assumes the relationship is the same at all ability levels, and then tests whether the elationship is significantly different from zero. Because the class pretest mean appears in all equations, initial differences between the achievement levels of the classes are "statistically

controlled.". For example, the second comparison asks whether the posttest is predictable from the teacher characteristic or behavior <u>beyond</u> what is predictable from the pretest score.

In the event that the interaction is found to be statistically significant ($\underline{p} \leq .05$), expected values for the posttest are calculated for particular combinations of pretest level and classroom behavior, in order to explicate the nature of the interactions. Four combinations are presented:

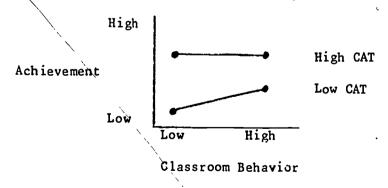
Low Pre with low CB;

Low Pre with high CB;

High Pre with low CB; and

High Pre with high CB

where "high" and "low" are plus and minus one standard deviation from the mean of the variables concerned. To facilitate comparisons across classroom behavior variables, these values are scaled as \underline{z} scores ($\overline{x} = 0$, SD = 1). In the example below, we see the behavior is positively related to gain, but that its effect is restricted to classes whose initial ability is low (low CAT). The achievement of classes whose initial CAT scores are high do not appear to be influenced by the behavior. It is important to note that the regression lines do not represent actual results for groups of classes, but predicted values for classes at two preselected levels of ability.



The second test, which forces the implicit regression lines to be parellel, may or may not be significant, independent of any interaction effect. If both tests are significant, we still can make a general statement about the classroom behavior's effect, but with a qualification recognizing its interaction with initial ability.

In the event that only the second test is significant, we can determine the direction of the effect of the teacher characteristics or behavior simply by examining the sign of the CB beta weight in the second equation.

Each predictor was analyzed in the manner shown in Figure 1 for both student ratings and achievement and for each subject area. For ease in reporting, the tables are reproduced as they come from the computer printout (Veldman & Linsley, Note 4). The example shown in Figure 1 is presented to aid the reader in understanding the data tables in Volumes II and III of this report.

The following interpretation can be made from the example output. The teachers' preference for a high level of errorless performance in class discussion is significantly related to student attitude as assessed by the Student Ratings of the Teacher (SRT). However, this effect differs depending upon whether their students were low or high in initial ability. In this case, the higher the teachers' responses on this questionnaire item, the less facilitative for students' attitudes in classes of low average entering ability. This trend is reversed for students' attitudes in high-ability classes, however. Here, the higher the teachers' response to the question of the ideal percentage of correct oral responses, the more positive the students' attitudes.



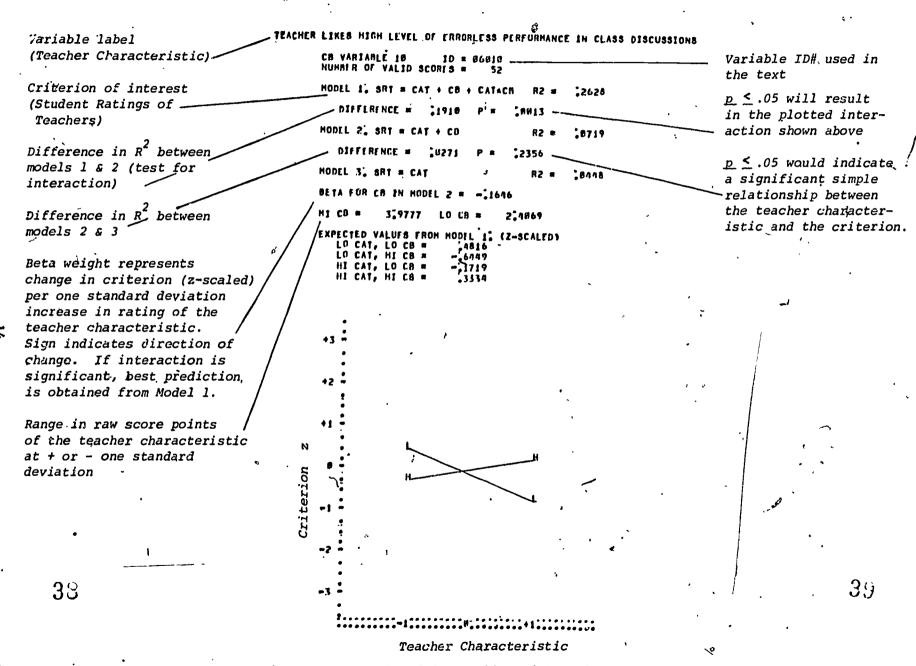


Figure 1. Example of data tables with explanatory notes

Presage-outcome Results

The presage-outcome relationships found in this study will be presented and discussed in the following chapters. Only those relationships significant at the $\underline{p} \leq .05$ level will be noted. For clarity, we will attempt to describe patterns that make interpretive sense and to emphasize, not so much significant individual variables, as the patterns that emerge from clusters of variables with similar relationships. Some findings, while statistically significant, show very weak relationships. This is more often true for those process variables that interact with entering ability. Because of this, an arbitrary cutoff point has been established to determine when a relationship is strong enough to discuss. This is a difference of .40 standard deviation units (or more) between the criterion scores predicted from +1 versus -1 sigma values of the classroom behavior variable in the equation. All data are presented in the tables, however, and readers are free to establish their own criteria.

Chapter 2 will present in tabular and narrative form the relationships between presage variables and both cognitive and affective outcomes for math classes only. Chapter 3 will present data with respect to English classes. Chapter 4 will consist of summary and discussion of the presage-outcome data as a whole.

CHAPTER 2

RELATIONSHIPS OF TEACHER ___R-REPORTS

WITH MATH ACHIEVEMENT AND STUDENT ATTITUTE

The 29 math teachers in the Texas Junior High School Study responded to an 89-item questionnaire and an 88-question interview covering teachers' attitudes and assumptions about teaching and self-reports of instructional practices. The 598 variables resulting from these presage data are listed in Tables 2.1 and 2.2 (beginning on page 19) with mean scores, standard deviations, and range of scores for each variable.

Linear regression equations were used to test the extent to which each separate variable was related to (or predictive of) class mean achievement and/or class mean student rating of the teacher. Volumes II and III of this report contain tables showing results of the two analyses for each or the 598 variables. These analyses resulted in 87 variables significantly ($p \le .05$) related to math achievement and 115 variables significantly related to student attitudes toward math teachers. In both cases, the number of significantly related variables for exceeded that which would be expected from chance.

Tables 2.3 through 2.7 (beginning on page 101) summarize significant relationships with respect to questionnaire and interview variables for math teachers. The tables can be read as follows:

		Relationship	Relationship
•• . • • •		with	with
Variable	**	Achievement	Attitude
Number	Variable Description	Main Interaction	Main Interaction

Teaching Strategies

06091 Teachers agree that too much reliance on the text makes effective teaching harder

· Hi + Lo -



Column 1: Variable Number. This column lists the variable identification numbers which correspond to the regression analyses in Volumes II and III.

Column 2: Variable Description. A brief description of each presage variable is given. For complete descriptions and exact wording of the items see the questionnaire and interview text in Appendix A of this report.

Column 3: Relationship with Achievement. This column contains symbols indicating significant relationships with class mean achievement. A "+" or "-" in the subcolumn headed "Main" indicates a significant ($p \le .05$) positive or negative relationship with achievement without respect to possible interaction with class mean entering ability (class mean CAT scores). Symbols in the subcolumn headed "Interaction" indicate differential effects for higher mean ability versus lower mean ability classes.

Column 4: Relationship with Attitude. In a similar fashion, this column indicates relationships between the teacher self-report variables and student attitudes toward teachers.

As an example, in Table 2.6 on page 117, Variable 06091, "Teachers agree that too much reliance on the text makes effective teaching harder" was negatively related to both achievement and student attitude in math classes. However, there were interaction effects with respect to student attitu, i.e., the variable was associated with low student ratings of teachers (Lo -) in lower mean ability classes, but not in high-ability classes (Hi +). In this case a strong negative effect among low-ability classes, combined with a weak nositive effect among higher-ability classes, resulted in an overall negative main effect for attitude. In summary, Variable 06091 indicates that according to our data, reported willingness to rely strongly on the textbook is



Table 2.1
Summary Statistics for Teacher Questionnaire:

Math Teachers

PCT OF STUDENTS	TEACHER EX	PECTS TO MA	STER CURRICULUM	٠
ID = 06001	MEAN	SIGMA	RANGE	N
10 - 60661	77%	18%	30 - 99%	28
PCT OF GRADES BAS	SED ON OBJ	ECTIVE EVID	ENCE	
ID = 06002	MEAN	SIGMA	RANGE	N
10 - 00005	85%	16%	30 - 99%	27
PCT OF GRADES BAS	ED ON SUB	JECTIVE EVI	DENCE	
10 - 04005	MEAN	SIGMA	RANGE	N
ID = 06003	40%	19%	10 - 70%	27
PCT OF DISCIPLINE PROBLE	MS ARE DUI	TO LACK OF		JECT
ID = 06004	MEAN	SIGMA	RANGE	N
10 - 00004	62%	22%	·10 - 99%	. 27
PCT OF DISCIPLINE PROBLE	MS ARE DUE	TO LAXITY	IN ENFORCING RULE	:s .
#B - 8480-	MEAN	SIGHA	RANGE	N
ID = 06005	41%	20%	10 - 99%	27
PCT OF Discipline probles	MS ARE DUE	TO FACTORS	INTRINSIC IN STU	DENT
	HEAN	SIGMA	RANGE	N
ID # 06006	38%	20%	10 - 99%	26
PCT OF			10 - 338	
CLASS TIME SHOULD	BE SPENT	IN LECTURES	DEMONSTRATIONS	
ID = 06007	MEAN	SIGMA	RANGE	N
•• • טטטטו	39%	10%	10 - 50%	58

•				
PCT OF CLASS TIME SHOULD	BE, SPENT	IN QUESTIONS	B, DISCUSSIONS	
		SIGMA	RANGE	N
ID = 06003	42%	17%	10 - 70%	28
PCT OF CLASS TIME SHOULD	BE SPENT	IN SEATWORK		
ID • 06009	MEAN 59%	51GMA 18%	RANGE 10 - 99%	N 28
TEACHER LIKES HIGH DISCUSSIONS				CLASS
ID = 06010	MEAN	SIGMA	RANGE	N
	83%	15%	30 - 99%	25
Teacher Likes High	LEVEL OF	ERRORLESS P	ERFORMANCE IN	SEATWOR
ID = 06011	MEAN	SIGMA	RANGE	N
	89%	15%	50 - 99%	25
TEACHERS SPEND HIG				
ID = 06012			RANGE	
- 	52%	18%	10 - 70%	<u>.</u>
TEACHERS SPEND HIG	H PCT OF	TIME TEACHIN	G SUBGROUPS	•
ID = 06013	MEAN	SIGMA	RANGE	N
,	33%	15%	10 - 50%	27
TEACHERS SPEND HIG	H PCT OF	TIME TEACHING	G WHOI,E CLASS	
ID = 06014	MEAN	SIGMA -	RANGE-	N
	59%	20%	10 - 99%	27
FREQUENCY OF HOMEW	ORK ASSIGN	YEO		
ID # 96015	MEAN	SIGMA	RANGE	N
AON13	2.32	1,31	0.00 - 4.00	85



MOST VALUABLE	INFORMATION A	ABOUT STUDE	ENTS COMES FROM GR	ADES
ID = 06016	#51	Signa .41	RANGE 0,00 ≈ 1.00	N 88
MOST VALUABLE ACHIEVEMENT TESTS	INFORMATION /	100UT \$ T U08	NTS CONES FROM	
10 = 06817	, 29	Signa ,45	RANGE 0.86 ~ 1.08	88 85
MOST VALUAGLE SUBJECTIVE EVALUA	INFORMATION /	lbout. Stune	NTS COMES FROM	•
ID = 06618	MEAN •57	Sigma ,49	RANGE 0,00.0 1.00	88 N
TEACHERS TRY T	O DREGS UP LE	ESONS TO H	AKE THEN INTEREST:	ENG
10 = 06019	MEAN -86	SIGHA .35	#ANGE 0,00 = 1.00	88 8
TEACHERS ASSUM	E STUDENTS WI	LL ENJOY L	ESSON WITHOUT SPEC	YAI.
ID = 06020	MEAN •14	SIGMA ,35	RANGE 0.00 - 1.00	58 N
STUDENTS APPEA	RING TO UNDER	STAND THE	MATERIAL	
ID = 06021	MEAN ,75	SIGMA •43	RANGE 0,00 - 1,00	N 28
STUDENTS ASKIN	- G FEWER QUAST	IONS		\$
10 = 06055	MEAN .25	SIGMA ,43	RANGE 0.00 - 1.00	N 28
STUDENTS BEGIN	MHI NACH DUIM	EDIATELY	. ~	
ID = 06023	HFAN V54	SICNA ,SO	EANGE 0.40 ↔ 1.50	14 28



SLOWER STUDENTS APPEARING TO UNDERSTAND

#8090 = 01	MEAN .68	SIGHA .47	RANGE 0.00 ≈ 1.00	, 88 N
CORRECTLY DONE	SEATHORK AS:	SIGNMENTS		
ID = 00025	MEAN	SIGMA .47	8ANGE 0.00 = 1.00	ห 28
A WELL-BEHAVED	CLASS			
ID = 06026	MEAN •61	Sigma ,49	RANGE 0.00 - 1.00	N 28
STUDENTS APPEAR	ING TO ENJOY	school		
ID = 06027	MEAU	SIGHA	RANGE 0.00 - 1.00	N 85
STUDENTS BEING	AGLE TO WORK	ON THEIR	OHN	
10 = 06028	MEAN .68	SIGMA .47	RANGE 0.00 + 1.00	88 N
PARENTS ARE BEST	UTILIZED A	S TUYORS AT	r Home	
ID = 06059	MEAN • 46	SIGMA •50	RANGE 9.00 - 1.00	N 28
PARENTS ARE BEST	UTILIZED IN	N PTA AND P	PROJECT PARTICIPAT	ION
ID = 0603n	MEAN , 25	SIGNA .45	R4NGE 0.00 ≈ 1.00 -	88 8
PARENTS ARE BEST	UTILIZED FO	R HELP IN	FICLD TRIPS	
ID = 06031	MFAN • DC	SIGNA "So	PANGE 0,00 - 1,00	N 28

DARRNIS	ADF	REST	11771 1750	Tal	EXTRACURRICULAR	APTTUTTTE
1. WKCHIO	31.14	ひたうし	01161660	T 1.1	- なんすべんしひがだまもひになだ。	ALIIVIIIES

MEAN SIGMA RANGE ID = 06032 . 38 . 18 0.00 m 1.00 PARENTS ARE BEST UTILIZED IN DISCIPLINING STUDENTS AT HOME SIGNA MEAN RANGE ID = 06033 .96 .19 0.00 - 1.00 PARENTS ARE BEST UTILIZED BY SEEING THAT HOHEWORK, PROJECTS GET DONE SIGMA MEAN RANGE ID = 06034 .79 c 41 0,00 + 1,00 PARENTS ARE BEST UTILIZED TO PROVIDE WARM, POSITIVE HOME **ENVIRONMENT** MEAN SIGNA GANGE ID = 06035 .86 ____35 0.00 - 1.00 PARENTS AND BEDT UTILIZED TO PROVIDE ENRICHMENT, BOOKS, ETC. MEAN SIGHA HANGE .50 10 = 86836 .46 ମ.ତେ ≃ 1.00 85 ABILITY TO EXPLAIN OR SHOW HOW SIGMA MEAN RANGE .63 ID = 06037 3,52 2.00 . 4.00 75 ABILITY TO INITIATE OR DIRECT HEAN SIGMA RANGE ID # 05038 5.05 e 78 1.00 - 4.00 ABILITY TO DIAGNOSE LEARNING PROBLEMS

47

RANGE

2.00 - 4.00

27

SIGMA

.67

MEAN

3.19

ID = 66839

ABILITY TO MAKE CURRICULUM MATERIALS

MOTETIA TO HAKE LUI	ric I C O L Oil	MATERIALS		
ID = 06040	MEAN 2.46	SIGMA .73	RANGE 1.00 - 4.00	58 N
ABILITY TO ORGANIZE	THE CL!	SSROGH		
ID = 66641		SIGNA .93	RANGE 1.00 - 4.00	58 N
ABILITY TO INVOLVE	STUDENTS	IN DISTRE	SSING ASPECTS OF S	SUBJECTS
ID = 06042	MEAN BS	\$16MA •97	RANGE 0.00 - 3.00	N 27
. ABILITY TO PROVINE	MATERIAL	5 TO EVERY	STUDEN7	
10 # 06043		SIGMA 1.15	RANGE 9.00 - 4.00	N 27
AGILITY TO GAIN STU	DENTS UM	DIVIÖED AT	TENTION	
10 = 96044	Hean 2,46	SIGNA 1,18	RANGE 0.00 - 4.00	88 N
ABILITY TO ENCOURAGE	E STUDEN	TS TO ATTE	HPT MARD PROBLEMS	
		* * * *		

			MEAN	Sigha	RANGE	N
ID	3	06045	2,11	.96	0.00 - 4.00	27

ABILITY TO MAKE STUDENTS AWARE THAT THEY ARE IN SCHOOL TO LEARN

	145 4 41	0.7044	****	
***	MEAN	SIGMA	RANGE	N
10 = 865.46	2,68	,76	1.00 - 4.00	85

ABILITY TO ENGAGE STUDENTS IN PEER TUTORING

	неды	SIGHA	RANGE	N
ID = 00047	2.64	•97	0.66 - 4.06	20



ABILITY TO FORM WARM PERSONAL RELATIONSHIPS WITH STUDENT	ability	ARM PERSONAL RELATION:	SHIPS WITH STUDENT
--	---------	------------------------	--------------------

			ordinary market	• ••
	MEAN	SIGMA	RANGE	N
ID = 86948	3.04	-9/3	1,00 - 4,00	28
		. •	* 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	., 0
	,		•	
HAVING A GOO	OD SCHSE OF HUHO	Ł.		
	440- 441	6 4 6 1		
ID = 06849	ነ ነገር	91604	RANCE 2.00 ↔ 4.00	Ŋ
In a 400043	3 <u>,</u> 43	• 6 G	2,09 - 4,00	58
ABILITY TO	CONTROL CLASSEON	H		
	MEAN	SIGHA	RANGE	N
ID n 06050	3,71	.45	RANGE 3,00 + 4,00	85
			•	
			, ,	
40 F1 F 7 W 7 A	3 M 1 / 17 m 1 h 1 h . m 1 / 4 / 4 / 4 / 4			
ABILITA 10 (TIVE CLEAR INSTR	OCTIONS		
	MCAN	e Triti	B A LIGHT	
10 = 06051	7 60	51011A	PANGE 2.00 - 4.00	N
	26.30	<u> </u>	द•्राध व व व व	85
			•	*********
ABILITY TO F	O REMEDIAL WORK	WITH SLOW	LEARNERS	
	MEAN	SIGNA	RANGE 1,03 = 4,00	N
10 = 06052	3.89	• 7 છ	1,03 - 4,00	58
	•			
ARTITTY TO E	OTIVATE STUDENTS	R TO FNION	COMON HODE	
AUTETII III I	OLIVAIR OLOGISIII	O TO ENGUE	achoopiedick	
,	MEAN	SIGMA	RANGE	N
10 = 06053	3,21	.62	2,00 - 4,30	85
	~ • • •	• • • •	4 8 9 9	4.7
		•		
HAVING ENTHL	ISIASH			
	1.6 am 4 a 4			
10 m 06000		SIGMA	RANGE	N
ID = 06054	3,43	50%	2,00 - 4,00	58
			•	
BETHE WARM T	OWARD OTHERS			
eee voor gewood 1	THE PARTY OF THE THE TWO			
*	MCAN	SIGMA	RANGE	11
ID # 06835	3,25	,63	2,40 - 4,00	2.
	¥ :-	F	17 W 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	



PRAISING FREQUENTLY

,				
IO = Ø6056	HEAN 3.39	SIGMA .67	2,90 = 4,00	98 85
ABILITY TO GET S	STUDENT RESP	יבני		
ID = 06057	MEAN 3.38	SIGMA ,71	RANGE 2.00 - 4.00	N 28
ABILITY TO EQUIP	GTUDENTS T	O DO WELL	GN STANDARDIZED	TESTS
ID # 06058	Hean 1.04	SIGHA •94	RANGE 0.80 - 4.80	* N 28
KNOWING AND USIN	IG GEHAVIOR	MODIFIÇATI	ON TECHNIQUES	
ID = 06059	HEAN 2.14	SIGMA 1.03	RANGE 0,00 + 4,00	N 28
PRAISE			•	
ID = 66666	HEAN 3,1 5		RANGE 2,00 - 4,00	56 N
PUBLIC RECOGNITI	ON (ANNOUNC	EMENT OF AC	CHIEVEMENTS)	
ID = 06061	. HEVH 5.40	SIGMA o91	RANGE 1,00 = 4,00	N 28
EXEMPTION FROM T	ESTS"			
10 = 00065	MEAN .74	SIGMA .97	RANGE 0.00 - 3.00	N 27
SPECIAL PRIVILEG	E 5		•	
ID = 06863	MEAN 1,06	SIGHA 1.05	. RANGE 0.30 - 4.00	N 28



CONTESTS	AND	COMPETITIVE	GAMES
LUNICOIO	W 1811	しんひひと にしんしんをなっ	12 34 1.1 5 12

man and and a		SIGMA	RANGE 0.00 ↔ 4.00	9 B
10 = 06064	1,96	1003	ଖ୍€ି≎ ଓ ପ୍ୟୁଟ୍ୟ	60
NOTES TO PARENT	5			
		****		ħ
ID = 06065	2 57	SIGMA 1.08 -	RANGE ∅,00 ~ 4,00	28
WRITTEN COMMENT	S ON PAPERS			
	MEAN	SIGNA	RANGE	Ŋ
10 = 06066	2,93	•88	1,00 - 4,00.	. 58
OTHER TECHNÍQUE	S USED HHICI	I ARE NOT L	ISTED PREVIOUSLY	د موسعود ه ۲ نوم
. •	•			N
ID = 06067	MEAN 3.00	SIGMA 88.	RANGE 2.00 ≈ 4.00	3
		•		•
WORD GAMES OR S	TUDENT COMP	ETITION IN	FRONT OF THE CLASS	3
,		SIGMA	RANGE	N
IO = 06968	1.56	1.24	0.20 · 4.00	85
KNOWLEDGE OF FA	CTS SHOULD	PRECEDE GEN	ERALIZATIONS .	
	HEAN	SIGMA	RANGE	N
10 = 06869	2.96	. ,63	1.00 - 4.00	85
•	•			
TEACHERS SHOULD	BE FREE TO	AUMIT IGNO	RANCE OPENLY	_
N _N	MC: A bi	SJGNA.	RANGE	N
ID = 06070 .	MEAN 2.7B	1,97	0.00 - 4,00	27
,				
TEACHERS SHOULD	TEACH SUBJ	ECTS INSTEA	O OF ATTITUDES	
	MEAN	8 LGNA	RANGE	N
ID # 06071	1.71	1.03	ម.្ហា ↔ 4,68	58

STUDENTS CAN LEAR	N MATHEMAT	TICS AS WELL	L AS ANY OTHER SUE	JECT
	MEAN	SIGMA	RANGE	N
10 = 06072	2.86	1,12	0.70 - 4,00	85
·				
SCHOOLING SHOULD ADJUSTMENT	PRIMARILY	TRAIN STUD	ENTS TO HAMDLE SOC	IAL
	MEAN	SIGMA	RANGE	Ħ
ID = 06073	2.04	1.95	0,00 - 4,00	5\$
		•		
TEACHING SHOULD O	E ORTENTE) TOWARD HE	LPING STUDENTS DO	WELL
371 110111120 1201	HEAN	SIGHA	* RANGE	N
10 = 06074	.89	•98	0.00 - 4.80	28
	-	•	•	
	•			
WORTHWHILE LEARNI	NG IS TIR	ing and difi	FICULT	
	HEAN	SIGNA	RANGE	N
ID # 06075	1.39	1,23	0.00 - 4.00	28
•	e		•	
WITHOUT PROPER TR UNDEVELOPED	AINING STU	IDENTS MENT	AL ABILITIES REMAI	13
	иели	SIGNA	RANGE	. N
ID = 06076 -	2,36	1,01	1.00 - 0.00	28
			,	
	1		_ ·	•
SOME STUDENTS AGK	TOO HANY	QUESTIONS		
	MEAN	SIGMA "	RANGE	N
10 = 06077	· ·	1,18		85
		40	•	
T. SHOULD HAVE DI	SC. GROUPS		DENTS LEARN FROM P	EER
*h = 04070	MEAN	SIGNA	RANGE	N
ID = 06078	2.75	, 75	0.00 - 4.66	58
•				
IT IS NATURAL FOR	STUDENTS	TO RESIST	TEACHERS	
٠,	HEAN	SIGNA	RANGE	14
10 # 06079	1.15	. •93	0.00 - 3.00	27



•	•	•			
	TEACHERS SHOULD	TALK TO ST	UDENTS AS T	HEY WOULD TO ADUL	.TS~ ~ ~
	1D = 0608m	MEAN 1,50	SICMA •94	RANGE 0.00 - 4.00	58 N
	SYUDENTS CHOULD (EXPECT SCH	nolina to a	E INTERESTING	
	ID = 06041	MEAN 2.46	SIGMA 87	RANGE 1.00 - 4.00	N 28
	UNLESS EXPLANATION	OMS APE SHO	DRT, STUDEN	TO LOSE INTEREST	
<	10 = 46685	MEAN 3,04	° Andre 80.	RANGE 1.00 - 4.00	N 85
	LETTING FASTER ST	UDENTS HEL	.P SLOWER'O	HES IS A GOOD STR.	ATEGY
	ID = 06083	* MEAN 2.79	Sigma 1.01	RANGE . 0.00 - 4.00	N 88
	STUDENTS SHOULD H BOARD IN MATH	AVE A GREA	T DEAL OF F	PRACTICE AT THE BL	-vcķ
ı	ID = 8608%	₩EAN 1.96	SIGMA .94	RANGE 0.00 - 4.00 -	58 N
	TRS. NEED NOT SPE LEARN ALONE	ND TIME WI	TH BRIGHT 'S	TUDENTS SINCE THE	Y CAN
•	10 = 06085	MEAN 1.46	SIGMA 1,12	RANGE 0.00 = 4.00	28 N
	THE MORE DIFFICUL	T THE TASK	THE BETTER	FOR THE STUDENT	,,4
	ID = 06686	MEAN 1.43	SIGMA .90	7.8ANGE , 4.00	5 8 Ņ
	HAVING A WIDE VARY IS NOT WORKABLE	IETY QF WOI	€ RK FOR DIFF	: Ering ability Lev	ei, 9 '
	1D = 06087	HEAN 1.25	STONA '	range 0.00 = 4.00	H 125
		•	materia?	•	

'\$,

•		•	•	
TEACHERS SHO	OUED DISCOURAGE	STUDENTS	FROM HOVING AROUND	THE 1
*	MEAN	Strhá	RANGE	N .
ID = 06088	2.32		ଖ୍ଠଥି⊷ 4,ଜର	, 88 N
•		•		, 3 ,
		•		٠.
one should e	XPECT STUDENTS	TO FORGET	HUCH THAT IS TOLD	THEM
٠.	" MEAN	SIGNA	RANGE	A.
ID = 06089	1.79	1.05	P. 66 - 3.00	В В
1	•	•		1.4
•	٠ - ٢	•	•	•
PRACTICE MAK	ES PERFECT - SUI	MS UP LEAR!	PING	•
•	· J MEAN	SIGMA	RANGE	N
ID = 068:30	1.69	94	8.60 × 3.00	58.
•		-	,	
,			•	
TOO MUCH REL	IANCE ON THE TH	EXT MAKES .	EFFECTIVE TEACHING	HARDER
, /	HEAN	SIGMA	RANGE	N
10 = 06091	1.62	. 93	1.00 - 4.00	85
			•	
			* ***	
TEACHERS MAKE ACKNOWLEDGE IT	IT A POINT TO	D RE. MKUNG	OCCASIONALLY, THEN	N
, M	HEAN	SIGNA	RANGE	N o
10 = 06098	1,75	1.29	. 8.80 - 4.00	28
		•		
TEACHING SHOUL WHAT IS LEARNED	.D BE EVALUATED	IN ITS ON	N RIGHT REGARDLESS	OF
	MEAN	SIGMA	RANGE	N
10 = ge033	1.82	1.04	0.00 - 4.00	28
	,		•	
	•		•	
A GOOD TEACHE	R SHOULD BE DE	TERMINED		
	MEAN	SIGMA -	RANGE	И
ID = benan.	. 3,11.	. 56	0.00 - 4.60	28
			9 **	 -
	, ,			
TEACHER IMPAC	T IS HORE THPO	RTANT THAU	ANY OTHER PHASE O	F SCH.
ENVIRONMENT	•	· •		
ID # 06095	- MEAN 2,54	310MA 1.15	RANGE	IL "
· 4	το μ αττ 1	* • * B	и, со - 4.00	28
	•	•	,	

(b = 06096	MEAN 2.36	Sigha ' Sigha'	. RANGE 4.00	N
				3
•) R	, ,	•	•
TFACHERS SHOULD	USE SOHE OF	THE STUDE	NTS SLANG	
FD = 011507	MEAN	SIGHA	RANGE	N
[D ⇒ 06097	5 ំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំ	, 95	Ø.00 ≈ 3.º0	88
TEACHERS SHO /	REWARD CAND	PENALIZE	LACK OF) EFFORT D	ESPITE
•	MEAN	SIGMA	RANGE	И
D = 06098	2.56	, 96	Ø,00 ~ 4.00	27
•				
EEPING STANDARD OR ST. TO LEARN	* *		RECOURE IS BEST W	AY
D = '06899	MEAN	Sigha ? 1.01	∠PANGE 0.00 - 4.00	N
	1.69	* 0 41 7		28
ESPITE RISK OF	BORING SOME	. TEACHERS	SHOULD EXPLAIN TO	човоренЦ
	MEAN	SIGNA	RANGE	N
		0.7	0,90 - 4,00	28
บุ = 06160	8.64	. 97		
บุ = 06160	2,64	• 71		
ECTUPE ON RATIO		` ,	S WILL NOT REDUCE	
ECTUME ON RATIO	NAL INSIGHT Mean	OF NUMBER	RANGE	. N
ECTUME ON RATIO	INAL INSTIGHT	OF NUMBER	•	И 28
ECTUME ON RATIO	NAL INSIGHT Mean	OF NUMBER	RANGE	
ECTUPE ON RATIO EEDED MATH DRILL D = 06101	MEAN 2.50	OF NUMBER	RANGE	28
ECTUPE ON RATIO EEDED MATH DRILL D = 06101	NAL INSTGHT Mean 2.50	OF NUMBER	RANGE 1.00 → 4.00	28
EEDED MATH DRILL D = 06101	MEAN S.50	OF NUMBER SIGMA .02 THERS DOES	RANGE 1.00 = 4.00 NOT STIMULATE ACI	HIENEKÉV



ID = 06105

RANGE 1.00 - 0.00

N

85

516M4 . e97

REAN

8,18

IT	IS	BETTER	T()	ERR BY	UNDEREXPLAINING	THAN	BY	OVEREXPLAINING
----	----	--------	-----	--------	-----------------	------	----	----------------

	- MEAN	- SIGMA	RANGE	N
10 = 66100	1,25	•91	0.00 - 3 00	85

HIGH GRADES REINFORCE EFFORT, MAKING STUDENTS WORK HARDER

	MEAN	SIGMA	NANGE	N
ID = 06105	43 د د د	.76	1.00 - 4.00	28

STRICTER BULES WOULD HELP ELIMINATE DISCIPLINE PROBLEMS

			MEAN	SIGMA	RANGE	14
ID :	Ü	86186	5.51	1.11	0.00 - 4.00	28

IQ TESTS HERELY LABEL STUDENTS AND SHOULD NOT BE USED

			MEAN	Sigha	RANGE	N
ID	=	06107.	1,93	1,87	0,00 - 4,00	85

TEACHER LEVEL OF EDUCATION (POST GRADUATE WORK)

	MEAN	SIGHA .	RANGE	N	
ID = 06108	2.84	1,48	0.09 - 4.00	27	

GRADUATE DEGREE FROM MAJOR UNIVERSITY OR COLLEGE

		HE AN	Signa	RANGE	N
ID	n 06109	.17	.37	0.00 - 1.00	6

TOTAL YEARS TEACHING EXPERIENCE

	•	MEAN	SIGNA	RANGE	N
10 = 06	114	1,21	1.42	6.88 ~ 4.88	85

TOTAL YEARS TEACHING EXPERIENCE AT JUNIOR HIGH SCHOOL

	BE VIII.	GEGNA	Sanas	N
ID n 05111	. 96	1,38	0.00 - 4.00	85

			798		
TOTAL	YEARS	TEACHING	PRESENT	SUBJECT	MATTER

THE PARK TO PARK	0 123617		i omonone		
ID = 06112		MEAN .75	arenv .	RANGE 0.00 ≈ 4.00	8 Я
MEHBERSHIP	IN TEXAS	STATE	TRACHERS AS	SOCIATION (TSTA)	
10 = 06113		HEAN .75	SIGNA .43	#ANGE 0.00 ~ 1.00	88 N
MEMBERSHIP	IN NEA	,			
ID = 06114		MEAN .71	SIGNA .45	RANGE 0.88 - 1.08	8S N
MEMBERSHIP	IN AMERIC	CAN FEDE	ERATION OF	TEACHERS (AFT)	
ID = 06115		MEAN	SIGMA •31	RAMBE 0.00 + 1.00	88 N
MEMBERSHIP	IN OTHER	ORGANIZ	ATIONS MOT	LISTED	
ID = 06116		MEAN ,50	\$164A •50	RANGE Ø.00 ≈ 1.00	N 28





Table 2.2

Summary Statistics for Teacher Interview:

Math Teachers

SEVERAL ABILITY	LEVELS IN O	NE CLASSRO	OM PRESENTS A PRO	BLEM
10 = 07001	MEAN 1.80	°IGMA .40	RANGE 1.00 - 2.00	N 25
COPE WITH ABILIT	Y LEVELS BY	1) ABILIT	Y GROUPING	
10 = 07002	MEAN 1.58	SIGMA .49	RANGE 1,00 - 2.00	26 N
2) INDIVIQUALIZE CONTRACT WORK	D WORK, SEL	F-PACED; L	EARNING CENTERS;	IGE;
ID = 07003	MEAN 1.31	SIGMA .46	RANCE 1.00 - 2.00	26 N
3) DIFFERENT LEV	EL MATERIAL	S AND ASSI	GNMENTS SUPPL MATE	ERIAL
ID = 07004	MEAN 1.50	SIGMA •50	RANGE 1.00 = 2.00	56 N
84) MORE SPECIAL	. #	CONFERENCE	S Work After School	DL.
ID = 07005	MEAN 1.12	SE,	- RANGE 1.00 + 2.00	N 26
5) PEER TUTORING	ALLOW STUD	3	RK TOGETHER	
iD = 07006	MEAN. 1,23	SIGMA •42	RANGE 1.00 = 2.00	S 6 N
6) DIFFER TESTIN CREDIT WORK	G AND GRADI	NG EXPECT L	LESS FROM STUDENTS	S EXTRA
10 = 07007	MEAN 1,23	SIGMA 42	RANGE 1.00 - 2.00	56 N



٤,

7) WHOL CLSS APPR SOM IGNR PROB	TEACH TO	HI OR MID	HOPE OTH CATCH ON	NGLET
ID = 07008	MEAN	SIGMA	RANGE	N
	1.15	.36	1.20 = 2.00	26
8) OTHER: RESOURCE	TEACHER	STUDENT TI	EACHER TEACHER AID	Ε
ID = 07009	MEAN	SIGMA	RANGE	26
	1.27	.44	1.00 - 2.00	N
TEACHER COPES WITH THAN AVOIDING PROB	ABILITY	LEVELS HER	RSELF IN CLSS RATH	ER
ID = 07010	MEAN	SIGMA	RANGE	56
	2,69	,54	1.00 + 3.00	N
METHODS FOR COPING	WITH ABI	LITY LEVEL	S IN CLASS WERE S	UCCESSFUL
ID = 07011	MEAN	SIGMA	RANGE	26
	3.12	.85	1.00 - 4.00	N
GROUP STDIS IN CLS	S ON BASI	S OF 1) A8	ILITY BASED ON DI	AGNOS
· · · · · · · · · · · · · · · · · · ·	MEAN	SIGMA	RANGE	N
	1,53	.50	1,00 = 2,00	17
2) ABILITY BASED OF STUDENT	OBSERVA	rion Asses	SHENT OF WORK TALK	WITH .
ID = 07013	MEAN	SIGMA	RANGE	N
	1.41	.49	1.00 + 2.00	17
3) ABILITY (NO OTHE	R RESPONS	SE GIVEN)		
ID = 07014	MEAN	SIGMA	RANGE	N
	1,41	49	1.00 - 2.00 _	17
4) RANDOM OR BALANC TOGETHER	ED GROUPS	FOR SOME	ACTIVITIES OR WOR	KING
ID = 07015	MEAN	SIGMA	RANGE	N
	1.00	0.00	1.00 + 1.00	17



SOME	CROUPS	FTVFN	TO	41	ABILITY	GROUPS	AS	OPPOSED	TΩ	LOW
JUME	GRUUPS	PIVEN	10	~1	MOTETI	unguru	~~	OF F OSLIF	1 0	F0"

MEAN SIGMA RANGE N ID = 07016 1.67 .47 1.00 → 2.00 27

TEACHER INDIVIDUALIZES ON REGULAR BASIS

HEAN SIGMA RANGE N ID # 07018 1.83 .90 1.00 - 3.00 18

TEACHER INDIVIDUALIZES BY 1) SELFPACED WRK CONTRACT PACKET

LRNING STATION

MEAN SIGMA RANGE N ID = 07019 2.14 .83 1.00 - 3.00 5 28

2) DIFFERING EXPECTANCIES TEST LESS WORK FOR SLOW SPECIAL ASSIGNMENTS

MEAN SIGMA RANGE N 10 = 07020 1.33 .47 1.00 - 2.00 18

3) ABILITY GROUPS HAVING DIFFERENT ASSIGNMENTS

MEAN SIGMA RANGE N ID = 07021 1.43 .49 1.00 + 2.00 21

4) OTHER : EXTRA HELP CONFERENCES USE RESOURCE TEACHER AIDE

MEAN SIGMA RANGE N ID = 07022 1.56 .50 1.00 - 2.00 18

TEACHER USES GROUPS AND ALSO INDIVIDUALIZES

MEAN SIGMA RANGE N ID = 07023 1.15 .36 1.00 - 2.00 _ 20

TEACHER INDIVIDUALIZES ONLY (DOES NOT GROUP)

MEAN SIGMA RANGE N 1D = 07024 1.46 .50 1.00 - 2.00 28



TEACHER	GROUPS	ONLY	(DOES	NOT	INDIVIDUALIZES)
			• • •		

MEAN SIGMA RANGE N ID = 07025 1.21 .41 1.00 - 2.00 28

TEACHER NEITHER GROUPS NOR INDIVIDUALIZES

MEAN SIGMA RANGE N ID = 07026 1.18 .38 1.00 + 2.00 28

FREQUENCY OF TESTS

MEAN SIGMA RANGE N ID = 07027 1.14 .35 1.00 - 2.00 28

USES BOTH TEACHER-MADE AND PREPARED TESTS AS OPPOSED TO TEACHER-MADE ONLY

MEAN SIGMA RANGE N
- ID = 07028 2.61 .86 1.00 = 4.00 28 ...

ADVANT OF SELF-MADE TEST:1) TEST WHAT IS TAUGHT KIDS FAMILIAR W/MATERIAL

MEAN SIGMA RANGE N ID = 07029 1.25 .43 1.00 = 2.00 28

2) CAN GIVE DIFFERENT TESTS TO ABILITY GROUPS; MORE

INDIVIDUALIZATION

MEAN SIGMA RANGE N 10 = 07030 1.93 .26 1.00 - 2.00 27

3) BETTER FORM INSTRUCTIONS USE TERMS KIDS KNOW SIMILAR TO HOMEWORK

MEAN SIGMA RANGE N.

1D = 07031 1.15 .36 1.00 - 2.00 - 27

4) OTHER ADVANTAGES TO SELF-MADE TESTS

	SADVANT OF SELF-M LLS NOT COVRD		•		
.ID		MEAN 1.07	SIGMA ,26	RANGE 1.00 - 2.00	N 27
5)	TAKES MUCH TIME	EFFORT WO	RK TO MAKE	TEST	
10	= 07034	MEAN 1.54		RANGE 1.00 - 2.00	N 24
3)	OTHER DISADVANTA	GES TO SE	LF-MAGE TES	TS	
ID				RANGE 1.00 - 2.00	N 24
	SINNING ABILITY L				AND
ID	= 07036	MEAN 1.04	SIGMA .20	RANGE 1.00 = 2.00	N 24
5)	CHECKING PERSONAL	_ FILE: AS	SK COUNSELO	R OTHER TEACHERS	
ID	= 07037	MEAN 1,33		RANGE 1.00 - 2.00	N 27
3)	DOING DRAL WORK,	READING A	ALOUD		
ID	= 07038	MEAN ,		RANGE 1.00 - 2.00	N 27
4)	GETTING WRITING	BAMPLE, PA	NRAGRAPH		
10	= 07039	MEAN 1.07	SIGHA .26	RANGE 1.00 = 2.00 =	N 27
5)	USING STANDARD DI	LAGNOSTIC	TEST		
ID	• 97949	MEAN 1.00	SIGMA 0.00	RANGE 1.00 - 1.00	N 27



6) USING DIAGNOSTIC TEST = UNSPECIFIED	IF	STANDARD	UB	SELE-MADE
--	----	----------	----	-----------

	MEAN	SIGMA	RANGE	N
ID = 07041	1.19	.39	1.00 - 2.00	27

7) USING SELF-MADE DIAGNOSTIC TEST

	MEAN	SIGMA	RANGE	N
ID = 07042	1.41	.49	1,90 - 2.00	27

8) OTHER WAYS TO FIND ABILITY LEVEL

• •	= 07043	MEAN	•	SIGMA	RANG	Ε	N	
10	# (01043	1.30		.46	1.00 -	2.00	27

FIND CAUSE OF LEARNING PROBLEM BY 1) ANALYSIS OF WORK BEHAVIOR

		MEAN	SIGMA	RANGE	N
10	2 07044	1.15	, 36	1.00 - 2.00	27

2) REFERRING KID TO COUNSELOR, RESOURCE TEACHER, SPECIAL ED

		MEAN	, SIGMA	RANGE '	N
10	= 07045	1,23	.42	1.00 - 2.00	26

3) CONSULTING PERMANENT FILE, COUNSELOR, OTHER TEACHERS

	•	MEAN	SIGMA	RANGE	
TD	■ 07046				N
• •	- 61640	1,35	• 4 B	1.00 - 2.00	26

4) WORKING WITH STUDENT; CONFERENCE WITH STUDENT

10 - 07007	MEAN	SIGMA	RANGE	N
ID = 07047	1.27	• 44	1.00 - 2.00 -	26

5) DIAGNOSTIC TEST

ID = 07048	MEAN	OTPUY	RANGE	N
10 - 6/649	1.46	.50	1.00 - 2.00	26

6) CONTACTING PARENTS

HEAN SIGMA RANGE N 10 = 07049 1.23 .42 1.00 - 2.00 26

7) OTHER METHODS TO DIAGNOSE LEARNING PROBLEMS

MEAN SIGMA RANGE N ID = 07050 1.03 .27 1.00 - 2.00 26

TEACHER HAS A STEP-BY-STEP PROCEDURE TO DIAGNOSE LEARNING

PROBLEMS

MEAN SIGMA RANGE N ID = 07051 1.31 .46 1.00 = 2.00 26

STONTS NEEDING REMEDIAL WORK OR ENRICH GIVEN 1) SUPPL PACKETS WRKBKS KITS

MEAN SIGMA RANGE N ID = 07052 1,23 .42 1,00 = 2,00 .26

2) DIFFERENT LEVEL TEXTS READERS

MEAN SIGMA RANGE N 1D = 07053 1.54 .50 1.00 - 2.00 28

3) TEACHER-MADE MATERIALS: DITTOS HANDOUTS

MEAN SIGNA " RANGE N ID = 07054 1.57 .49 1.00 = 2.00 28

4) PUZZLES GAMES

MEAN SIGMA RANGE N ID = 07055 1.29 .45 1.00 - 2.00 28

5) AUDIO-VISUAL AIDS LISTENING STATION ANALOG COMPUTER AID

MEAN SIGMA RANGE N° 1.21 1.00 - 2.00 28

41



6) EXTRA CREDIT ASSIGNMENTS PROJECTS

10 = 07057	MEAN 1,14	SIGMA .35	RANGE 1,00 + 2,00	N 28
7) RESOURCE TEACHE	R SPECIA	L HELP	•··,	
ID = 07058	MEAN 1.14	SIGMA .35	RANGE 1.00 + 2,00	N 28
8) OTHER: READING	CLASS EAS	SIER ASSIGN	MENTS	
ID = 07059	MEAN 1.11	SIGMA 31	RANGE 1.00 - 2.00	N 28
9) ENRICHMENT ACTI	VITIES .			
ID = 07060	MEAN 1.11	SIGMA .31	RANGE 1.00 - 2.00	N 28
TEACHER STRESSES E GRADES	FFORT RAI	THER THAN A	CHIEVEMENT IN DECI	DING
ID = 07061	MEAN 1.29	SIGMA ,45	RANGE 1.00 - 2.00	88 N
TEACHER REGULARLY	USES CURV	E IN GRADIN	1 G !	
ID * 07062	MEAN 1.93	8IGMA .65	RANGE 1.00 + 3.00	N 28
TO AVOID CONFUSION GRAPHIC EXMPLE	W/ NEW M	ATERIAL TEA	CHER 1) USES CONC	RETE
ID = 07063	1.68	SIGMA .80	RANGE 1.00 - 3.00	N 85

2) EXPLAINS DIFFERENT WAYS USES SMALL STEPS REPEATS DETAILED LECTURES

** . ***	MEAN	SIGMA	RANGE	N
10. = 07064	1.25	.43	1.00 - 2.00	28



3) USES VISUAL AND AUDITORY AIDS

SIGMA MEAN RANGE N ID = 07065 .49 1.39 1.00 - 2.00 85

4) RELATES TO AND BUILDS FROM PREVIOUS MATERIAL

Q.

MEAN SIGMA RANGE ID = 07066 1.14 ,35 1.00 - 2.00

5) GENERATES INTEREST MOTIVATION RELATES TO REAL WORLD IS

MEAN SIGMA RANGE ID = 07067 1.14 .35 1.00 - 2.00

6) ASKS FOR QUESTIONS DISCUSSES W/ STUDENTS WATCHES FOR PUZZLED FACES

SIGMA MEAN RANGE N ID = 07068 .31 28. 1.11 1.00 - 2.00

7) GIVES ORAL EXPLANATION LECTURE

MEAN SIGMA RANGE N ID = 07069 .31 28 1.11 1.00 - 2.00

8) CHECKS COMPREHANSION W/ TEST DRILL EXERCISES BOARD WORK

SIGMA MEAN RANGE N ID = 07070 .38 1.18 1.00 -2.00

9) GIVES HANDOUT WRITTEN INSTRUCTIONS EXPLANATIONS OUTLINE

MEAN SIGMA. RANGE ID = 07071 .38 1.00 - 2.00 1.18

10) USES PRIVATE CONTACTS WORKS WITH STUDENTS INCRVIDUALLY

SIGMA MEAN RANGE . ID = 07072 1,11 .31 1.00 - 2.00

2

	MEAN	SIGMA	RANGE	N ~
D = 07073	1,11	,31	1.00 - 2.00	28
		·		-
12) OTHER: TEAC	HES VOCABULA	ARY PEER TE	ACHING '	
,	MEAN	SIGMA	RANGE	N
07074	1,18	• 38	1.00 - 2.00	85
			,	
IHEN STUDENT HI UILDS TRUST			1) AVOIDS EMBARAS	
D = 07075	MEAN 1.25	SIGMA .43	RANGE 1.00 = 2.00	N 28
	• • • •	• • •	- Lion	
) GIVES HELP I	N'CLASS WORK	KS WITH STU	DENT RETEACHES	
	MEAN	SIGMA	RANGE	N
ID = 07076	1,29	•45	.1.00 + 2.00	28
3) GIVES HELP T	ALKS WITH S'	TUDENTS OUT	SIDE CLASS	
	MEAN	SIGMA	RANGE	N
(D = 07077	1,68	. , 47	1.00 - 2.00	28
) CALLS ON STU	DENTS IN CL	ASS GETS ST	Udents involved a	T BOA
'	MEAN	SIGMA	RANGE	N
D = 07078	1.14	_• 35	1.00 - 2.00	28
) LEAVES STUDE	NT TO TAKE 1	INITIATIVE	SEEK HELP FORGETS	THOS
OT TRYING	MEAN	SIGMA	RÄNGE	41
D # 07079	MEAN 1.14	*32	1.00 - 2.00	88 N

6) GETS HELP INFO FROM COUNSELOR PRINCIPAL PARENTS CHECKS RECORDS

MEAN SIGMA RANGE N 10 = 07080 1.11 ,31 1.00 = 2.00 28

	7)	STUDEN	T HIDING	CONFUSION	NOT A PRO	BLEM DOESNT HAPPEN	MUCH
				MEAN	SIGMA	RANGE	N
	ID	a 0708	i	- 1.14	.35	1.00 - 2.00	28
_		074504	11056 66	ከዋከገልዋና ከና	CO THITAGE	C++	
	0)	Uingki	, naga tu	NINACIS PO	ER IUIURS	CALL ME AT HOME	
•			. 0	MEAN	SIGMA	RANGE	N
	ID	■ 0708	15	1.07	. 26	1.00 - 2.00	28
	9)	USES S	TEP-BY-S	TEP PROCES	SS		
		•	•	44 en 4 5 l	67644	9.W95	
	T D	= 0,708	3	MEAN 1.21	SIGMA .41	RANGE 1.00 + 2.00	. 28
	• •	- 19.00	, ·	••	• • •	.,00 + 2,00	. 20
			. •				
				LISHED CLA	SS RULES A	ND PROCEDURES FOR	· ·
	APP	ROPRIATE	BEHVK	MEAN	SIGMA	RANGE	N :
	ID	■ 07Ø8	4	1.18	.38	1.00 - 2.00	28
							.,
				,	·		
		ES INC		STUDENTS 1	HUST COME P	REPARED WITH HOME	IORK
	AINL	JUFFLI		MEAN	SIGMA	RANGE	N
•	ID	3 0708	5	1,93	.26	1.00 - 2.00	28
				•		•	
			'0	,			
	(ج.	MUST B	E ON TIM	E IN SEAT	AT BELL NO	TARDINESS	
٠.	. *			- HEAN	SIGMA	RANGE	N
	10	= 0708	16	1.54	, 50	1,00 - 2,00	- 28
		`					
	31	MHST S	TT TN AS	SIGNED SEA	\ T		
	3,	11001 0	11 11 40	OTRICE OF		•	
		- 0.000		MEAN	SIGMA	RANGE '	N
	10	* 0708	97	1.50	,50	1.00 - 2.00	85
		•	,		4		•
	4)	MUST N	OT LEAVE	WITHOUT F	PERHISSION		
	٠					~ ************************************	
	. 1D	= 0708	38	MEAN . 1.11	SIGMA •31	RANGE 1.00 - 2.00	N 28
		⇒ , n. €	•	• • • •	• • •	4	4. 4
					•		

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5) MUST NOT INTERUPATIEACH OR OTHER STOT MUST RAISE HAND TALK ONE AT TIME MEAN SIGMA RANGE 10 = 07089 1.39 **.** 49 1.00 - 2.00 28 6) MUST NOT DISRUPT TALK LOUD BOTHER OTHERS MEAN SIGMA RANGE ID = 07090 1.68 .47 1.00 - 2.00 7) MUST NOT FIGHT HORSEPLAY THROW THINGS MEAN SIGHA RANGE ID = 07091 1.32 47 1.00 - 2.00 85 8) HUST NOT CHEW GUM OR EAT FOOD MEAN SIGMA RANGE ID * 07092 1.14 . 35 1.00 - 2.00 28 9: MUST SHOW MUTUAL RESPECT COURTESY RESPECT RIGHTS OF OTHERS MEAN SIGMA RANGE ID = 07093 1.18 .38 1.00 - 2.00 10) OTHER: MUST USE NO PROFANITY OBEY SCHOOL RULES CLEAN UP ROOM MEAN SIGMA RANGE ID = 07094 1...4 .35 1.00 - 2.00 TEACHER HAS RULES FOR TURNING IN HOMEWORK AND SEATWORK MEAN SIGMA RANGE ID = 07095 1.29 . 45 1.00 + 2.00 1) TEACHER DISTINGUSHES EXCUSED AND UNEXCUSED IN ACCEPTING LATE WORK MEAN SIGMA RANGE ID = 07096 1.82 . .38 1.00 - 2.00



2)	TEAC	HER	PENALIZE	S GRADE	WHEN WORK	IS LATE	
10	= 07	097		MEAN 1.24	SIGMA .43	RANGE 1.00 → 2.00	N 25
	TEAC DATES					NAL DUE DATE (.008	
ID	= 07	098		MEAN 1.40	SIGMA .49	RANGE 1,00 - 2,00	22 N
4)	WORK	IS	DUE ON D	UE DATE	· :		
ID	= 07	1099		MEAN 1.24	SIGMA ,43	RANGE 1.00 = 2.00	^ N ≥5
	TEACH			DURAL R	ules:use In	K PENCIL PUT IN	TRAY
			-	MEAN	SIGMA	RANGE	N
10	= 07	100		1.64	.48	1.00 - 2.00	25
6)(THER	?; n(CASIONAL	LY CHEC	HS WORK FOR	COMPREHENSION	
.	- 01	,,,,,	t t	MEAN	SIGMA ,45	RANGE 1.00 = 2.00	N 25
10	= 07	101	1	1,23	, j , 43	1 4 00 - 5 00	£.3
7E,	ACHER	HA	S RULES F	OR MAKI	NG UP MISSE	D WORK	
	- -	• • • • •	`\	MEAN	SIGMA	RANGE 1.00 - 2.00	N 2 5
10	= 07	102	,	1,28	• 45 ·	1000 - 500	2,5
1)	TEAC	CHER	SETSTI	E LIMIT	FOR TURNIN	G IN MISSED WORK	
ID	= 07	7103		MEAN 1.68	SIGMA .47	RANGE 1.00 - 2.09	_ 28
a)	STU	DENT	HAS RES	PONSIBIL	ITY 70 MAKE	UP MISSED WORK	
				MEAN.	SIGMA	RANGE	N
10	= 0	104		1,65	. 48	1.00 - 2.00	53



13/62 10/62

3) TEACHER PENALIZES MAKE-UP DATE	GRADE FOR	UNEXCUSED	ABSENCE OR EXCEE	DING				
ID = 07105		SIGMA ,50	RANGE 1.00 - 2.00	53 N				
4) TEACHER TAKES SOLUP WORK	ME RESPONS	BILITY TO	SEE STUDENT MAKE	S				
		BIGMA ,34	RANGÈ 1,00 - 2.00	23 N				
5) OTHER: LAISSEZ-FAIRE ATTITUDE MISSED WORK MUST BE MAKE UP								
*		SIGMA ,28	RANGE 1.00 = 2.00	N 23				
RULES AND PROCEDURES DIFFER IN EACH CLASS								
		IGHA ,48	RANGE 1.00 + 2.00	N 23				
1) MINOR VARIATIONS	IN STRICTN	ESS IN EAC	H CLASS					
	MEAN S	IGMA .49	RANGE 1.00 - 2.00	N 28				
2) CLASS STRUCTURE D	ETERMINED	BY ABILITY	LEVEL					
	MEAN S 1.18	IGMA .39	RANGE 1.00 - 2.00	N 11				
3) ÇLASS STRUCTURE D	ETERMİNED	BY STUDENT	BEHAVIOR					
ID = 07111	MEAN \$	IGMA .45	RANGE 1.00 + 2.00 _	N 11				
A) RULES AND PROCEDU	RES DIFFER	IN TERMS	OF ACADEMIC					
78		IGHA	RANGE 1.00 = 2.00	N 11				



•	\$ 3.3	· ·		
CLASSROOM CONTROL	IS ORGANI	ZED 1) BY	ASSIGNING SEATS A	T FIRST
ID = 07113	MEAN 1.36	SIGMA .48	RANGE 1.00 - 2.00	N 11
2) BY BEING STRIC	CT AT FIRS	T LOOSEN UP	LATER	
ID. = Ø7114		SIGMA "31	RANGE 1.00 - 2.00	N 27
3) BY HANDING OUT	OR POSTI	IG RULES; S	TUDENTS COPY THEM	
ID = 07115		ŠIGMA ,50	RANGE 1.00 - 2.00	N 28
4) BY ENFORCING R OF STUDENTS	LULES NO HE	ESITATION TO	D PUNISH MAKE EXA	MPLE
ID = 07116	MEAN 1.29	SIGMA .45	RANGE 1.00 - 2.00	N 28
5) BY USING STUDE	INT INPUT	TO ESTABLIS	H AND ENFORCE RUL	ES
ID = 07117	MEAN 1.18	SIGMA ,38	RANGE 1.00 - 2.00	N 28
6) BY ANNOUNCING	RULES AND	CONSEQUENC	/ ES OF BREAKING TH	EM "
ID * 07118		8IGMA .35	RANGE 1.00 = 2.00	8 S
7) EXPLAINING EXP	ECTATIONS	LOW+KEY D	ISCUSSIONS WITH S	TUDENTS
ID = Ø7119	MEAN 1,61	SIGMA .49	RANGE 1.00 - 2.00 _	8 S
8) BY BUILDING ST PRESENTATION	RUCTURE GR	RADUALLY IN	FORMALLY NO FORMA	L
10 = 07120	MEAN 1.18	SIGMA 8E.	RANGE 1,00 - 2,00	8 S



9) OTHER METHODS

CLASSROOM CONTROL METHODS SUCCESSFUL

ID = 07122 HEAN SIGMA RANGE N 1.32 .47 1.00 + 2.00 28

OTHER CONTROL METHODS TEACHER MIGHT TRY 1) NONE SATISFIED W/

ID = 07123 HEAN SIGMA RANGE N 2,46 .73 1.00 + 3.00 28

2) MIGHT TRY STRICTER ENFORCEMENT; MORE CONSISTENCY FOLLOW

3) MIGHT TRY REALITY THERAPY BEHAVIOR CONTRACTS BEHAVIOR

4) MIGHT LET STUDENTS HELP MAKE ENFORGE RULES PUNISHMENTS

ID = 07126 MEAN SIGMA RANGE N 1,23 ,42 1.00 + 2.00 26

5) OTHER: USE F FACTOR OPEN TO NEW IDEAS MORE PARENT CONTACT

STUDENTS CAN MOVE TO ANOTHER SEAT IF THEY WANT

TALKING	IS	A	PROBLEM	WITH	FLEXIBLE	SEATING	FIXED	SEATING
CONTROLS	TAI	KIN	1G					

MEAN SIGHS RANGE N ID # 07129 2.27 .86 1.00 = 3.00 26

CONFUSION DISRUPTION FROM FLEXIBLE SEATING FIXED CONTROLS CONFUSION

MEAN SIGMA RANGE N 1D = 07130 1.56 .50 1.00 = 2.00 27

CONTROL DISCIPLINE DIFFICULT W/ FLEXIBLE SEATING EASIER W/ FIXED SEATING

MEAN SIGMA RANGE N 10 = 07131 1,19 .39 1.00 - 2.00 27

NAMES CALLING ROLL DIFFICULT W/ FLEXIBLE, SEATING EASIER W/ FIXED SEATING

MEAN SIGMA RANGE N ID = 07132 1.19 .39 1.00 - 2.00 27

SUBST TCHR HAS MORE DIFFICULTY W/FLEXIBLE SEATS FIXED SEATS EASIER FOR HER

MEAN SIGMA RANGE N ID = 07133 1.30 .46 1.00 = 2.00 27

STUDENTS HAPPY RELAXED W/FLEXIBLE SCATING STIFLED BORED W/FIXED SEATING

MEAN SIGNA RANGE N 10 = 07134 1.19 .39 1.00 = 2.00 27

CLIQUES FORM W/ FLEXIBLE SEATING FIXED SEATING BREAKS CLIQUES UP

MEAN SIGMA RANGE N ID = 07135 1.37 .40 1.00 + 2.00 27

OTHER ADVANTAGES AND DISADVANTAGES OF FLEXIBLE AND FIXED SEATING

MEAN SIGMA RANGE N 10 = 07136 1.11 .31 1.00 - 2.00 27

MAXIMAL LEARNING OCCURS WITH FIXED SEATING

PERSONAL DEVELOPMENT PEER RELATIONS BETTER WITH FIXED SEATING

PREPARATIONS FOR SUBSTITUTE () LESSON PLANS REGULARLY SCHEDULED MATERIALS

2) SPECIAL LESSON PLANS DRILL BUSY WORK REVIEW TEST READING ASSIGNMENTS

ID = 07140 MEAN SIGMA RANGE N 1.43 .49 1.00 + 2.00 28

3) GENERAL INFORMATION RULES BELL-SCHEDULE MATERIALS FORMS

MEAN SIGHA RANGE N 10 = 37141 1.68 .47 1.00 = 2.00 28

4) SEATING CHART CLASS ROOL

5) NOTES ON RELIABLE AND PROBLEM STUDENTS

6) TEACHER WONT LET SUBSTITUTE DO SOME THINGS MENTIONS LIMITATIONS OF SUBS

7) 0	THER	THINGS	PREPAREO	FCR	SUBSTITUTE	TEACHER:	PUZZLES	GAMES
------	------	--------	----------	-----	------------	----------	---------	-------

MEAN SIGMA RANGE N ID = 07145 1.21 41 1.00 - 2.00 28

TEACHER HAS PROBLEM W/STUDENTS WAVING HANDS BLURTING OUT CALL-OUT ANSWERS

MEAN SIGMA RANGE N ID = 07146 • 1,21 .41 1.00 + 2.00 28

HANDLES THIS BY 1) REPRIMAND RESPOND NEGATIVELY NON-VERBAL INTERVENTION

MEAN SIGMA RANGE N 10 = 07147 2.32 .89 1.00 + 3.00 28

2) BY TELLING STUDENTS TO RAISE HAND TO STOP WAIT TAKE TURNS

MEAN SIGMA RANGE N 10 = 07148 1.29 .45 1.00 - 2.00 28

3) BY EMPHASIZING GOOD MANNERS RESPECT OTHERS GIVE OTHERS A CHANCE

MEAN SIGMA RANGE N ID = 07149 1.39 .49 1.00 - 2.00 28

4) BY IGNORING CALL-OUT ANSWERS

MEAN SIGMA RANGE N 1D = 07150 1.18 .38 1.00 = 2.00 28

5) SOMETIMES CALL+OUTS NOT CONSIDERED A PROBLEM CALL+OUTS SHOW ENTHUSIASM

MEAN SIGMA RANGE N 1D = 07151. 1.07 .26 1.00 - 2.00 28

6) CALL-OUTS NOT CONSIDERED A PROBLEM NOT DEALT WITH NOT ACCEPTED

MEAN SIGMA RANGE N ID = 07152 1.18 .38 1.00 - 2.00 28



:

7) OTHER WAYS TO DEAL WITH CALL-OUT ANSWERS

STUDENT WHO DO NOT VOLUNTEER 1) TEACHERS CALLS ON THEM USES PATTERN TURN

ID = 07154 MEAN SIGHA RANGE , N 1.29 .45 1.00 = 2.00 28

2) TEACHER CALLS ON THEM IF SURE THEY KNOW ASKS EASY JUEST NO EMBARRASSMIT

3) TEACHER LEAVES ALONE ESP IF TIRED UPSET SHY JUST GRADES WRITTEN WORK.

ID # 07156 MEAN SIGMA RANGE N 1.32 .47 1.00 + 2.00 28

4) TEACHER DRAWS THEM OUT GIVES XTR ATTENTION TALKS PRIVATELY ASKS OPINION

TO # 07157 : MEAN SIGMA RANGE N 1.21 .41 1.00 + 2.00 28

5) OTHER: PUTS THEM WITH A SMART KID PRAISE CORRECTS PARTS OF ANSWERS

STUDENT WHO DOES NOT RESPOND 1) TEACHER GOES ON TO ANOTHER STUDENT

2) GOES ON TO ANOTHER BUT CONTACTS LATER FOR PRIVATE CONFERENCE

ID = 07160 MEAN SIGMA RANGE N 1.11 .31 1.00 - 2.00 28

3) TEACHER HAS A PR	IVATE CONFERENCE TO	O DISCUSS THE PROB	_EH
	MEAN SIGMA 1.11 .31	RANGE 1.00 - 2.00	88 85 °
TEACHER EVENTUAL	LY IGNORES LEAVES		
	MEAN SIGMA 1,21 ,41	RANGE 1,00 + 2,00	N 28
5) TEACHER REPEATS LEADING QUESTIONS			ŗ
ID = 07163	MEAN SIGMA 1,11 ,31	RANGE 1.00 - 2.00	5 - N
6) TEACHER AVIODS E			
10 = 07164	MEAN SIGMA 1.43 4 49	RANGE 1.00 - 2,00	N 28
7) NO RESPONSE SELD	OM HAPPENS NOT A P	^	
ID = 07165	MEAN SIGMA 1.07 .26	RANGE 1.00 - 2.00	N 28
8) OTHER: TEACHER R	EFERS TO COUNSELOR	OFFICE GIVES INDI	VIDUAL
ID = 97166	MEAN SIGMA 1,36 ,48	RANGE . 1,00 + 2,00	85 N
STUDENT WHO DOES NO	T PAY ATT(NTIÙN 1)	TEACHER CALLS OUT	
ID = 07167	MEAN SIGMA 1,14 ,35	RANGE 1.00 + 2.00	8 S
2) TEACHER CALLS ON	STUDENT ASKS A GU	JESTION	
ID = 07168	MEAN SIGMA 1.07 .26	RANGE 1,00 - 2,00	8 S



3) TEACHER REPRI	MANDS CALLS	B DOWN SCOLI	DS CRITICIZES EMB	ARASSES
	MEAN	SIGMA	RANGE	N
10 * 07169	1.39	.49	1.00 - 2.00	28
	•	-		
•				
4) TEACHER USES	MANAGEMENT	SAYS PAY AT	TTENTION KNOCK IT	OFF
GET TO WORK				
ID = 07170	MEAN	SIGMA	RANGE	N
.0 - 01110	1,50	.50	1.00 - 2.00	38
EL TELCUEN HACA				
5) TEACHER USES	NUN-VERZAL	INTERVENTION	JN .	
	MEAN	SIGHA	RANGE	N
ID = 07171	1.21	.41	1.00 + 2.00	28
			•	
·				
6) TEACHER TALKS	PRIVATELY	DISCUSSES P	ROBLEM WITH STUDE	FNT
		,	Woodan water of one	- ()
*D = 07170 '	MEAN	SIGMA	RANGE	N
ID # 07172	1.21	•41	1.00 - 2.00	88
		·		
54 55				\$
7) TEACHER SEEKS	OUTSIDE HE	LP PARENT C	COUNSELOR OFFICE	•
	MEAN	SIGMA	RANGE	A.I
ID = 07173	1.07	•56	1.00 = 2.00	N 28
	• • • • • • • • • • • • • • • • • • • •	4-0	*#00 # L 00	<u>.</u> .
•				
8) TEACHER DOES	NOTHING IFA	VES ALONE E	SP IF NON-DISRUPT	TTVE '
TIRED UPSET	NOTHIS BEA	THE AMONG E	or it wan-biskoti	TAF
_	MEAN	SIGMA	RANGE	'N
10 = 07174	1.14	.35	1.00 - 2.20	28
•				
•				
9) OTHER: TEACHE	R VARIES AC	CT ESIYIVIT	KEEP INTEREST	
	MEAN	SIGMA	DANCE	A1
ID = 07175	1.14	* • 35	RANGE 1.00 - 2.00	28 N
	4 4 4 .4	4		1, 0
	•	,	•	•
CAUSE OF ALTEMAT	70N AR 45 4	ANGUACE OFF	All Time ALIE MEN	
STATUS	TON NO 11 F	ALAGE SER	CULTURE RACE MIN	UKITY
	MEAN	SIGHA	PANGE	N
10 = 07176	1.32	.4*	1.00 - 2.00	28
		•		



2) CONSISTENT FAILURE REPEATERS (OLDER STUDENTS)

MEAN SIGMA RANGE N 1D = 07177 1,21 ,41 1.00 - 2.00 28

3) POOR SELF-CONCEPT LACK OF CONFIDENCE FEAR OF FAILURE

4) LACK OF ABILITY OR BASIC SKILL TOO FAR BEHIND LOW ACHIEVER

MEAN SIGMA RANGE N 1D = 07179 1.25 .43 1.00 - 2.00 28

5) INAPROPRIATE, IRRELEVANT MATERIALS

MEAN SIGMA RANGE N 10 = 07180 1.50 .50 1.00 - 2.00 28

6) EMOTIONAL-PERSONAL ADJUSTMENT; PHYSICAL DISABILITY, ETC

MEAN SIGMA RANGE N 10 = 07181 1.11 .31 1.00 = 2.00 28

7) HOME PROBLEMS, FAMILY LIFE, HOME ENVIRONMENT

MEAN SIGMA RANGE N 1D = 07182 1.32 47 1.00 - 2.00 28

8) LACK OF PARENTAL INTEREST; ENCOURAGEMENT, OR GOOD INTEREST

MEAN SIGMA RANGE N 10 = 07183 1.57 .49 1.00 = 2.00 28

9) PEER PROBLEM, LACK OF FRIENDS

MEAN SIGMA RANGE N 1D = 07184 1.29 ,45 1.00 + 2.00 28 10) SOCIAL INVOLVEMENT WITH PEERS, OPPOSITE SEX

MEAN SIGMA RANGE N 1D = 07185 1.18 .38 1.00 = 2.00 28

11) LACK OF INTEREST; DONT VALUE EDUCATION; BORED DONT CARE

MEAN SIGHA RANGE N ID = 07186 1.07 .26 2.1.00 - 2.00 / 28

12) BEING ANTI-AUTHORITY, DISRUPTIVE; HATE TEACHER; BELLIGERENT

MEAN SIGMA RANGE N 10 = 07187 1.18 .38 1.00 - 2.00 28

13) TEACHERS FAULT; FAIL TO MOTIVATE; GIVE BAD SELF-IMAGE; NOT WORK W/ THEM

WORK W/ THEM

TD = 07188 - MEAN . SIGMA . RANGE N 1.18 .38 1.00 - 2.00 28

14) OTHER: DRUGS ABSENCE BUSING

MEAN SIGMA RANGE N ID = 07189 1.18 .38 1.00 - 2.00 28

STUDENT WHO DOES NOT DO ASSIGNMENT: TEACHER 1) NAG THREATEN FUSS PRAISES.

MEAN SIGHA RANGE N ID = 07190 - P 1.43 .49 1.00 + 2.00 28

2) ADJUSTS MATERIALS ACTIVITIES TO STUDENTS ABILITY INTEREST BUILDS THERE

MEAN SIGMA RANGE N 10 = 07191 1.25 .43 1.00 + 2.00 28

3) HAS CONFERENCE WITH STUDENT TO DISCUSS PROBLEM

10 = 07192 $\frac{MEAN}{1.29}$ $\frac{SIGMA}{45}$ $\frac{RANGE}{1.00 + 2.00}$ $\frac{N}{28}$

4) GIVES EXTRA	ATTENTION HEL	P AFTER O	R IN CLASS MOVES	STUDENT
10 = 07193	1.32	\$1GHA .47	RANGE 1.00 2.00	N 28
5) CONTACTS PAR	FNTS		ť	
ID = 07194	MEAN 1,18	SIGMA (. RANGE 1.00 - 2.00'	58 N
6) REFERS TO CO	UNSELOR OFFIC	E CONFEREI	CE WITH COUNSELO	R AND/OR
ID = 07195	. MEAN 1.43	SIGMA ,49	RANGC 1,00 = 2,00	58 . N
7) FAILS FORGET	, B STUDENT DOE	S NOTHING	GIVES NO OTHER R	ESPONSE
ID = 07196 h	MEAN 1.18	SIGNA .38	RANGE 1.00 - 2.00	58 N
8) FAILS FORGET:	S STUDENT AFT	ER OTHER S	TRAYEGIES FAIL	
10 = 07197	MEAN 1,14	SIGHA ,	RANGE 1.00 - 2.00	.59 N
9) DISCÚSSES PRI	DBLEN WITH CO	UNSELOR OF	OTHER TEACHERS	
ID = 07198	HEAN 1.36	SIGMA • 48	RANGE 1.00 - 2.00	98 N
10) OTHER: ASSIN	ANS DETENTION	GUARD REL	ATIONSHIP WITH S	TUDENT
ID = 07199	MEAN 1.11	aighv 31	RANGE 1.00 - 2.00	58 N
	STEP-RY-STEP	PROCESS	TO COPE W/STUDNE	MHO.
ID = 67280	. MEAN 1.14	andis ee.	RANGE 1,00 - 2,00	98 N



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STUDENT WHO DOESN'T DISCUS REPEATS ID = 07201	UNDERSTAI HEAN 1.57	SIGMA	NS TEACHER 1) EXP RANGE 1.00 - 2.00	LAIN N 28
2) PRIVATELY EXPLA	INS DISCU	SSES REPEAT	S READS DIRECTION	S
10 = 07292	MEAN 1,57	\$164A ,49	RANGE 1.00 - 2.90	48
3) HAS STUDENT REA	U REREAD I	REPEAT OIRE	CTIONS TO TEACHER	
.10 × 07203	MEAN 1,25	SIGMA ,43	RANGE 1,00 - 2,00	85 85
4) USES DEVELOPMEN	TAL OR PR	EVENTIVE AP	PROACH	•
10 = 07284	MEAN . 1.36	91GHA , 48	RANGE 1.00 - 2.00	N 28
S) REACTS NEGATIVE	LY HILL H	T GIVE HEL	P PENALIZES GRADE	;
_10 = 07205	MEAN 1.25	SIGMA 43	RANGE 1.00 - 2.00	N 28
6) OTHER: TEACHER	SENDS STU	DENT TO COU	NSELOR QUESTION.	STUDENT
ID = 07206	HEAN 1,29	SIGNA .45	RANGE 1.00 + 2.00	5 8
BOTH TEACHER AND S	TUDENT AR	E RESPONSIB	LE FOR MOTIVATION	TO LEAR!
10 = 07207	MEAN 1.07		RANGE 1,00 + 2,00	N 28
TEACHER GIVES REAS	ONS WHY 5	TUDENTS NEE	D EXTERNAL HQTIV	
10 = 67208	ME AN 11. 37	51 GNA • 48	1.00 - 2.00 1.00 - 2.00	, 27

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TEACHER CONSISTENTLY REMARDS GOOD DEHAVIOR AND GOOD WORK

MEAN SIGMA RANGE N 10 = 07299 1.56 .50 1.00 = 2.00 27

TEACHER REMAFOS WORK AND BEHAVIOR WITH 1) GRADES BONUS POINTS

MEAN : SIGMA RANGE N ID = 07210 2.50 .60 1.00 + 3.00 28

2) VERBAL PRAISE

MEAN SIGMA RANGE N 10 = 07211 1.25 43 1.00 - 2.00 28

3) WRITTEN COMMENTS ON PAPER

MEAN SIGMA RANGE N ID = 07212 1.50 .50 1.00 = 2.00 28

4) PUBLIC RECOGNITION: DISPLAY WORK USE AS EXAMPLE

MEAN SIGMA RANGE N . ID = 07213. 1.29 .45 1.50 - 2.00 28

5) OUT-OF-CLASS PRIVILEGES: LIBRARY FIELD TRIPS EAT OUT RUN

ERRANDS

MEAN SIGMA RANGE N 10 = 07214 1.14 .35 1.00 = 2.00 28

6) IN-CLASS PRIVILEGES: GAMES FILMS TALK NO TEST OR HOMEWORK

MEAN SIGNA RANGE N 10 = 07215 1.25 9.43 1.00 = 2.00 28

7) TIME OFF FREE TIME FREE DAYS PERMISSION TO LEAVE EARLY

MFAN 51GMA RANGE N

1D \$ 07216 1.29 .45 1.00 \Rightarrow 2.00 28

G) CONCRETE REWARD	S: CANDY A	WARDS CERT	FICATE CUM GIFTS	
ID = 07217	MEAN 1,32		RANGE 1,00 = 2,00	N 28
9) APPROVAL LOVE P	ERSONAL AY	TENTION PHY	SICAL AFFECTION	
	NEAN 1.07		1.00 - 2.00 1.00 - 2.00	N 28
10) COMPLINENTARY	NOTES TO P	ARENTS CALL	_ PARENTS TO BRAG	
ID = 07219	M&AN 1,11		RANGE 1.00 - 2.00	58 N
TEACHER CLOSENESS	TO STUDENT	S IS A PLUS	B FOR BUILDING RA	PPORT
ID = 07220	MEAN 1.14		RANGE 1.00 - 2.00	58 N
SOCIAL RELATIONSHI PROGRESS	P W/STUDEN	T MORE IMP	DRIANT THAN ACADE	ніс
	MEAN 3.14	SIGNA ,83	RANGE 1.00 - 4.00 "	N 28
RELATION W/ STUDEN	T IMPORTAN	IT SINCE MOR	•	BETTER
10 = 07222	MEAN 1.45	SIGMA .65	RANGE 1.00 - 3.00	N 27
RELATIONSHIP IS ST	RONG MOTIV	ATOR STUDE	NT WILL WORK TO P	LEASE
ID = 07225	MEAN 1,07	sigma ,26	RANGE 1.00 - 2.00	8 8 N
RELATIONSHIP TEACH	ER SYUDENT	HORE COMFO	DRIABLE RECEPTIVE	
ID = 07224	MFAN 1,11	SIGNA .31	884GE 1.00 = 2.00	N 28



TEACHER HANDLES DISRUPTIVE STUDENT BY 1) CONFERENCE

ID = 07225 HEAN SIGNA RANGE N 1.10 .38 1.00 - 2.00 28

2) REALITY THERAPY CONTRACTS

MEAN SIGNA RANCE N 1.43 ,49 1.00 - 2.00 28

3) MANAGEMENT THREAT CRITICIZE WARN

4) ISOLATING MOVING STUDENT UP FRONT, INTO HALL

MEAN SIGNA RANGE N 1.21 .41 1.60 - 2.60 28

5) KEEPING AFTER SCHOOL, AFTER CLASS

6) CONTACTING PARENTS, SENDING NOTE HOME

7) REFERRING TO COUMSELOR: CONFERENCE W/ PARENT, COUNSELOR, STUDENT

MEAN SIGHA RANGE N 1.36 .48 1.00 - 2.00 28

B) SENDING TO PRINCIPAL, OFFICE

10 = 07237 MEAN SIGHA "RANGE N" 26

9) SENDING TO DETENTION, ISS, DCS.

10) OTHER: TONORING STOT, HAVING STOT DO SPECIAL ERRANDS, WRITING SENTENCE

ID = 87234 MEAN SIGMA RANGE N 1.18 .38 1.00 - 2.00 28

TEACHER HAS SETP-BY-PROCESS FOR HANDLING DIGRUPTIVE STUDENTS

ID = 07235 MEAN SIGNA TRANSE N 1.32 .47 1.00 - 2.00 28

STUDENTS DISCIPLINED FOR 1) DISRUPTION, DISOBEDIÊNCE, BOTHERING

10 = 87235 MEAN SIGMA RANGE N 1.80 .40 1.00 - 2,00 25

2) PROFANITY, SWEARING, VULGAR LANGUAGE

3) LACK OF RESPECT, CONSIDERATION FOR TEACHER, OTHER STUDENTS

4) CONSTANT TALKING, INTERRUPTING, CALLING DUP, WILL NOT SHUT

5) ROUGHHOUSING, FIGHTING, THROWING, DESTRUCTION OF PROPERTY

63					
	DISREGARDING DOING WORK	есноогновк:	TARDY, NO	T BRINGING MATERIA	Ls,
NO:	DOLLAG MONK	ME AN	SIGMA	RANGE	N
ID	z 07241			1.00 - 2,00	85
		-		,	
TO	FSTABLISH OR	FOIRTLY TE	ACHER () M	ust be consistent	
	LOW THROUGH				
		HEAN	SIGMA	RANGE	N
ID	= 07242	1,25	.43	1,20 - 2,00	26
2)	MUST BE FAIR	1_TREAT ALL	THE SAME.	DO NOT PLAY FAVOR	ITES
•	-	•	·		
			SICMA	PANGE	N
ID	s 07243	1,46	.50	1,00 - 2,00	58
3)	MUST BE HONE	ST, SINCERE			
				m	
*0	. 47304	MEAN		RANGE	Ŋ
In	± 07244	1,14	.35	1,00 - 2,00	€0
-					
-		N TEACHER RO	LE: KNON 3	SUBJECT: CORRECT IN	4 MANNER
ETC.	•	MCTH	810114	' RANGE	41
T D		PI LAN	อริกมง	KANSE	N
	CE 47245	1 29	. 45	1.00 - 2.00	2 A Š
		, 1.58	. 45	1.00 - 2.00	28
		1.29	. 45	1.00 - 2.00	8 \$
		. 1.29	. 45	1.00 - 2.00	8 8
		. 1.29	. 45	1.00 - 2.00	₽8
		' 1,29	.45 RESPECT FO	1.00 - 2.00 OR STUDENTS	
5)		' 1,29	.45 RESPECT FO	1.00 - 2.00	28 N 28
5)	, HUST SHOW TR	1,29 UST, CARING	.45 RESPECT FO	1.00 - 2.60 OR STUDENTS RANGE	N
5)	, HUST SHOW TR	1,29 UST, CARING	.45 RESPECT FO	1.00 - 2.60 OR STUDENTS RANGE	N
5) ID		1,29 UST, CARING MEAN 1,11	.45 RESPECT FO	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00	N
5) ID	, HUST SHOW TR	1,29 UST, CARING MEAN 1,11	.45 RESPECT FO	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00	N
5) ID		1,29 UST, CARING MEAN 1,11	.45 RESPECT FO	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00	N
5) ID		1,29 UST, CARING MEAN 1,11 ISTAKES, BE	.45 RESPECT FO SIGMA .31 A REAL PER	1.00 - 2.60 OR STUDENTS RANGE 1.00 - 2.60	N 28
5) ID	HUST SHOW TR # 07246 MUST AUMIT M	1,29 UST, CARING MEAN 1,11 ISTAKES, BE MEAN	.45 RESPECT FO SIGMA .31 A REAL PER	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE	N 28
5) ID	HUST SHOW TR # 07246 MUST AUMIT M	1,29 UST, CARING MEAN 1,11 ISTAKES, BE MEAN	.45 RESPECT FO SIGMA .31 A REAL PER SIGMA .35	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE	N 28
5) ID 6)	MUST SHOW TR # 07246 MUST AUMIT M # 07247	1.29 UST, CARING MEAN 1.11 ISTAKES, BE MEAN 1.14	.45 RESPECT FO SIGMA .31 A REAL PER SIGMA .35	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE	N 28 N 28
5) ID 6) ID 7)	MUST SHOW TR # 07246 MUST AUMIT M # 07247	1.29 UST, CARING MEAN 1.11 ISTAKES, BE MEAN 1.14	.45 RESPECT FO SIGMA .31 A REAL PER SIGMA .35	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE 1.00 - 2.00	N 28 N 28
5) 10 6) 10 7) TCH	MUST SHOW TR # 07246 MUST AUMIT M # 07247 OTHER: GO BY IRS REPUTATION	1,29 UST; CARING MEAN 1,11 ISTAKES, BE MEAN 1,14 EXPERIENCE; MEAN	.45 RESPECT FO SIGMA .31 A REAL PER SIGMA .35 SET GOUD	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE 1.00 - 2.00 EXAMPLE; SIDT KNOW RANGE	N 28 N 28
5) 10 6) 10 7) TCH	MUST SHOW TR # 07246 MUST AUMIT M # 07247 OTHER: GO BY	1,29 UST, CARING MEAN 1.11 ISTAKES, BE MEAN 1.14 EXPERIENCE;	.45 RESPECT FO SIGMA .31 A REAL PER SIGMA .35	1.00 - 2.00 OR STUDENTS RANGE 1.00 - 2.00 RANGE 1.00 - 2.00	N 28



TEACHER THINKS			CHERS AND CLASSES	ARE
70 - 01200		SIGNA	RANGE	N
ID = 07249	1,46	, 50	1,00 - 2,00	28
**************************************		•		•
DONT THINK	RATINGS INVA	l.10 1) STU	DENTS INNATURE, E	MOTIONAL,
٩	HEAH	SIGMA	RANGE	И
ID = 07250		.86	1,00 - 3,00	28
,			, ,	
•		•		
PRESSURE, ETC.	POND TO IRRE	LEVANT FAC	TORS: REVENGE, PE	ER
		SIGNA	RANGE	N
ID = 07251		,50	1,00 - 2,00	11
				••
•				>
3) FAULTY PROCE	DURE: POORLY	WORDED, T	IMED; NOT EXPLAINE	ED, ETC.
	MEAN		•	
IO = 07252	1.45-	•50	RANGE 1.00 - 2.00	N° 11
	•	•		* *
4) STUDENTS CAN	DISTINGUISH	ABILITY Y	D TEACH VERSUS EST	TABLISH
NAFFUKI	MEAN	~		
ID = 07253	1.18	•39	RANGE 1.00 - 2.00	N
			1.00 - C.60	11
TEACHER CONTRAD	ICTS HERSELF	IN QUESTI	ON	
10 = 07254	MEAN 2.19	Sigma 86.	RANGE	N
	# 6 1 7	,08	1,00 - 3,00	27
THE WHOLE CLASS	IS INVOLVED	IN CLASS (DISCUSSION	
, , , , , , , , , , , , , , , , , , ,			7,4,4000,4011	
ID = 0'255	MEAN	SIGMA	RANGE	N
10 - 17 (3)	1.81	.39	1.00 - 2.00	27
	./		~	
FREQUENCY OF CLA	\3\$ DISCUSSIO	พร์ พร์	ø	
,				
ID = 07256	MEAN	SIGHA	RANGE	N
17 - WEST	1,50	* ? C	1.00 - 2.00	10



ADVANTAGES OF CLASS OTHERS 10 = 07257	DISCUSS! MEAN 2,38	SIGMA	NYS LEARN BY HEAR BANGC 1,00 - 3,00	ING N 16
2) TEACHER CAN FIND QUESTIONS 10 = 07258	MEAN	SIGMA	IF UNDERSTAND; CA PANGE 1.00 = 2.00	TCH N 28
3) EFFECTIVE USE OF SAID 10 = 07259	HEAN	SIGNA	CLASS HEARS WHAT RANGE 1,00 = 2,00	15 N 28
4) STIMULATES MOTIV 1D = 07260	MEAN	SIGMA	TER ATTENTION, BE RANGE 1.00 - 2.00	S8 N HVAIOL
5) LEARN COMMUNICAT EXPRESSION 10 = 07261	ION SKILL MEAN 1,29	SIGNA	OR INTERACTION, S RANGE 1.00 - 2.00	ELF= N 2B
6) ESTABLISH IDENTI STDTS TALK ID = 07262	·	CONFIDENCE:	RANGE 1.00 - 2.00	SP N
7) OTHER: BRIGHT ST DISCUSSIONS ARE FUN IU = 07263		RN TOLERANCE SIGMA .41	RANGE 1.00 - 2.00	58 N
OTSADVANTAGES OF CL PARTICIPATE 10 = 07264	ASS DISCOMEAN 1.11	SIGHA	RANGE RANGE 1.00 - 2.60	N 28



2) TIPING FOR TEACHER: HARD TO GIVE ALL & CHANGE: MUST ATTEND CLOSELY

MEAN SIGMA RANGE N ID = 07265 1.21 .41 1.00 - 2.00 28

3) CONTROL, CEHAVIOR PROBLEMS MAY DEVELOP

MEAN SIGMA RANGE N ID = 07866 1.07 .26 1.00 + 2.00 28

4) DISC MAY GET HISDIRECTED, PETTY, TRINTAL; MAY START ARGUMENT

MEAN SIGNA RANGE H 10 = 3 € 267 . 1.18 .38 1.00 - 2.00 28

5) HARD TO DO WITH DIFFERENT LEVEL STUDENTS

MEAN SIGMA RANGE N ID = 67266 1.07 .26 1.00 = 2.00 28

6) LOSS OF ATTENTION; STUDENTS TUNE OUT; DONT LISTEN TO EACH OTHER

MEAN SIGHA RANGE N 1D = 07269 1.43 .49 1.00 - 28

7) NU DISADVANTAGES TO CLASS DISCUSSIONS

MEAN SIGMA RANGE N 10 = 07270 1.14 .35 1.00 + 2.00 28

B) OTHER: REWARDS COMPETITIVENESS; CANT TEACH TO INDIVIDUALS, ETC.

10 = 07271 HEAN SIGMA RANGE N 1,14 ..35 1,00 = 2,00 38

TEACHER TARGETS QUESTIONS TO BRIGHTER SLOWER STUDENTS ETC.

ID = 07272 MEAN SIGNA RANGE N 1.9726 1.00 26



TEACHER EQUALIZES QUESTIONS TARGETS FOR SPECIFIC REASONS

TEACHER DOLS NOT SAY WHEYHER OR NOT QUESTIONS ARE TARGETED

TEACHER DIRECTS MORE QUESTIONS TO BRIGHTER STUDENTS

TEACHER GOES TO STUDENT DURING SEATWORK PERIODS

MEAN SIGMA RANGE N 10 = 07276 1.64 .48 1.00 - 2.00 14

BOOKS TEACHER USED AND PROGRESS 1) IN LITERATURE: OPROJECTIONS COUNTROOM

 ME_AN SIGMA RANGE N 10 = 07277 3.35 1.64 1.00 + 5.00 26

2) IN LITERATURE: EASIER SUPPLEMENTARY MATERIALS

MEAN SIG: A RANGE N°
10 = 07278 = 0.00 = 0.00 = 0.00 = 0

3) IN SPELLINGS GBASIC GOALS IN SPELLINGS

4) IN GRAHMER: ONEW APPROACHESO (ADOPTED TEXT)

5) IN GRAHMAR: SUPPLEMENTARY MATERIALS WORKBOOKS SELF-MADE

MEAN SIGMA RANGE ID = 07281 ~0.20 ଳଚ୍ଚତ +0,00 - -0,00 -

6) PROGRESS IN SPELLING

MEAN SIGMA RANGE ID # 07282 -Ø.0B -0.00 -P. 96 - -U.UO

7) PROGRESS IN GRAHHAR

MEAN SIGHA RANGE ID = 07283 -0.00 -0.00 ≈0.00 - ~0.00

8) PROGRESS IN LITERATURE

MEAN . SIGHA RANGE ID = 07264 ₩Ø.00 -0.00 -0.00 - -0.00

9) IN MATH: OMODERN SCHOOL MATHEMATICSO ONLY

MEAN SICHA RANGE ID = 07285 - -3,28 -0.00 -0.00 - -0.00

10) TEACHER USES HIGHER LEVEL MATERIAL, IN ADDITION TO ADOPTED TEXT

SIGMA MEAN RANGE 10 = 67286 .49 1.39 1.00 - 2.00

TEACHER USES EASIER MAYERIALS IN ADDITION TO ADOPTED YEXT

MEAN SIGMA RANGE 10 = 07287 1.25 .43 1.00 - 2.00

GROUPS INDIVIDUALS IN CLASS ACCOMPLISH DESIRED OBJECTIVES

MEAN SIGHA RANGE 88570 = OI 1,50 50 1.00 - 2.00

TEACHER EVALUATES SUBGROUPS WITHIN THE CLASS

10	e 07289	ИЕ AN 1.58	Sigma ,49	RANGE 1.00 - 2.00	N 24
	LISH TEACHER OS. POSITION	JECTIVES	CONCENTRAT	FO ON: 1) WRITING S	KILLS
	a 07500	MEAN 1.67	SIGNA .a7	RANGE 1,00 + 2,00	N 27
2)	SPELLING VOCABUE	_ARY	ľ		٠
10	= 07291	HEAN -0.00	SIGMA ⇔0.00	RANGE ₩0,00 ← ₩0,00	-N -0 ·
3)	GRAMMAR SENTENCE	E STRUCTI	NKE	,	(
10	# 0729 2		SIGNA +0.00	RANGE +0.00	N 0
4)	READING COMPREHE	ENSTON SI	«ILLS		
10	= 07293		SIGMA -0.84	RANGE •0.00 × Jak	N 4(1
5)	LITERATURE MYTH	OLOGY EXI	POSURE AND	APPRECIATION	
10	# 0729G	MEAN -0,00	Sigma •0,00	RANGE -00,00 = -0,00	N -0
6)	VERBAL COMMUNICA	ATION DI	BCUSSION AB	SILITY	,
10	= 07295		SIGHA ~0.00	PANCE -0.00	N rØ
7)	SELF-RELIANCE RI	ESPONCI8:	ILITY INDEP	PENDENCE	

PEAN

10 = 07296

SIGNA ~0,00

71

RANGE

B) OTHER& LIBRA	RY RESEARCH	DICTIONARY	RELEVANCE OF CLAS	SWORK
10 = 67897	HEAN -3,00	SIGMA -0.00	RAUGE -0.000.00	N ₩B
MATH TEACHER OF DECIMALS PER CENT	JECTIVES CON	ICENTRATED	OH 1) 4 OPERATIONS	
ID = Ø7298	#0,00	SIGHA ⇔0,30	RANGE ≈0,00 ≈ ≈0,00	- 0
2) GEOMETRY ALG	SCORA HIGH SC	CHOOL PREPA	LRATION	
10 = 073%;	MEAN 1.68	516HA ,47	PANGE 1.00 - 2.00	N 28
3) UNDERSTANDIA	IG MATH RELAT	TING TO REA	AL WORLD	
10 = 0/300	MEAN 1.21	SIGNA •41	RANGE 1.00 - 2.00	N 85
4) PERSONAL AND	INTELLECTUA	L GROWTH	·	-
ID = 07301	HEAN 1,18	- 1	RANGE 1.89 - 2,00	85 85
REASONS FOR THE	SE ENG HATH	TEACHING (DBJECTIVES: 1)IMPOR	TANT
19 = 07302	MEAN 1,14	Signa 25.	RANGE 1.00 - 2.00	N 28
2) IMPORTANT FO	IR OTHER CLAS	SSES HJGH S	SCHOOL COLLEGE	
10 = 97393	HEAN 1.52	SIGMA .	RANGE . 1.00 - 2.09	N 27
3) NEEDED THIS	MOST PREVIOU	JSLY NEGLEG	TED FAR DEHIND	٠
10 = 10730a	ME AN 1.37	SIGNA	RANGE 1.00 - 2.80	`N 27
•	•	,		

4) DISTRICT GUIDELINES STANDARD GOUPETIVES

• • • • • • • • • • • • • • • • • • • •	#A3#	AFORE	SA RAUGE		
ID = 07305	1.22	*45	1.30 - 2.00	27	
•					

5) OTHER: EYPAND INTELLECT LAST CHANCE AT THIS PERSONAL PEACONS

	wCvn	\$168A	RALSE	23
10 = 0.1386	1,64	,19	1.40 . 2.00	27

ENGLISH TEACHER ASSIGNS LEGGLINFORTANCE TO 1) GRAMMAN

LINGUISTICS

		HEAN	SIGOA	BYLPE	72
Ip	= 07367	1.22	,42	1 4 445 + 5 4 450	27

2) LEARNING OF MERODIZATION OF SMECIFIC FACTS

•	HEAN	SIGMA	RANGE	11
ID = 07308	1.00	00048	1.00 + 1.03.	1

3) SPELLING VOCABULATY LITERATURE

	•	MEAD	510% A	RANGE .	N
13	s 37339	1.00	8.00		1

HATH TEACHER	ASSIGNS LESS	TOPORTANCE	10	1)	GEON	医乳脂丸	ALGE	BRA
TRIG				•				
	MFAN	SIGHA			RANG	F.		N
10 2 87310	1,60	9,68		1,0	00 -	1,00	3	1

2) BASES

,		ዛሺ ሴክ	SIGHA	RANGE	N
10 = 87311	•	1.62	. 19	1.00 - 2.70	15

3) NUMBER THEORY, PROCABILITY STATISTICS SATS ENGREHALES

•	HEAR	51644	<i>ቀላ</i> ለቤቴዊ	7.
10 = 67312	1.49	, 45	1.00 - 2.00	21

4) OTHER: PER CENT FRACTION DECIMALS WORD PROBLEMS FLOW CHARTS

MEAN SIGNA RANGE ID # 07313 .47 1.33 1.00 - 2.00

REASONS FOR MATH ENG ASSIGNING LESS IMPORTANCE 1) LESS

IMPORTANT USEFUL

ŚIGMA MEAN RANGE 1.40 .49 1.00 - 2.00 ID = 97314

2) LACK OF TIME

MEAN SIGMA RANGE .50 ID = 07315 1.50 1.00 - 2.00

3) TOO DIFFICULT ABSTRACT STUDENTS NOT PREPARED

MEAN SIGMA RANGE ID = 07316 .36 1.15 1.00 - 2.00

6) MEMORIZING NOT AS IMPORTANT AS UNDERSTANDING CONCEPTS

MEAN SIGMA RANGE 1.20 ID = 07317 .40 1.00 - 2.00

5) STUDENTS DONT NEED IT NOW ALREADY HAD IT GET IT LAYER

SIGMA MEAN RANGE ID # 07318 . 25 1.00 - 2.00 1.05

6) ALL AREAS ARE IMPORTANT NONE GIVEN LESS IMPORTANCE

SIGMA MEAN RANGE ID = 07319 .40 1.00 - 2.00 1,20

7) OTHER: MATERIAL FORGOTTON QUICKLY TRY NOT TO PUSH TOO HARD

MEAN SIGMA RANGE ID = 07320 1.07 . • 59 1.00 - 2.00

BUSING ACHIEVES DESIRED GOALS FOR MINORITIES

10 = 07321	MEAN 1,05		PANGE 1.00 - 2.00	80 N
ADVANTAGES OF BU	ISING: -1)E	XFOSES STUDN	T YO DIFFERNT IDEA	is.
ID = 07322	MEAN 2.11		RANGE 1,00 - 3,00	N 28
	-•,	•		-
2) BREAKS DOWN I	PREJUDIÇE	STUDNTS LEAR	N TOLERANCE UNDERS	STANDING
	HEAN	SIGHA	RANGE	N
IO = 07323 `		. ,48	1.40 - 2.00	26
			•	
3) MINURITIES GEOPPORTUNITIES	T BETTER	EDUCATION FA	CILITIES MORE	
OF ORTONTTIES	MEAN	SIGMA	RANGE	N
10 = 07324	1,19	,39	1,00 - 2,00	Š 8
A) NO ADVANYAGES . ID = 07325	ŕ	SIGMA	RANGE 1.00 - 2.00	N 26
4,540		• • •		
		9	•	¢
5) OTHER: SATISF NEIGHBORHOOD			VANTAGES INTEGRATE	ES
16 m 0772		SIGMA	RANGE	N D
ID = 07326	1.19	.39	1.00 - 2.00	26
DISADVANTAGES OF	F BUSING:	1) TIME SPEN	T ON BUSES MAKES	STUDNTS
	HEAN	SIGMA	RANGE	N
ID = 07327	1,19	•39	1.00 - 2.00	98
2) DOWNGRADES EI	H NOZTAĐU	IURTS CAPABLE	STUDENTS	
	HEAN	SIGMA	RANGE	N
10 m 07328	1,29	. 45	1,00 - 2,60	88



** !!*!!!!				
3) MINORITIES FEE WHITES	L INFERIOR	PRUSTRATE	D COMPETING WY AD	VANTAGED
WHITES	MEAN	SICMA	RANGE	N
ID = 0/329	1.14	.35	1,00 . 2.00	88
	۶.			
4) STUDNTS PARENT	S CANT BE	IN EXTRACU	RRICULAR ACTIVITIE	ES PTA ETC
ETC.				
ID = 07330	MEAN		RANGE	N .
10 2 01220	1,21	,41	1.00 - 2.00	58
				-
5. 05.0				
5) DESTROYS NEIGH	зокнооп со	NCEPT STUDI	NTS DON'T IDENTIFY	* H1IW *?.o.'
NEW SCHOOL	MEAN	SIGMA	RANGE	N .
ID = 07331			1,00 - 2,00	28
	•			
			2	
6) BUSED STUDENTS	FFFL ANGR	Y RESENTELL	HOLD NEGATIVE AT	TTTUDES
	C See and See . Sec. of Sec. of			, , , , , , , , , , , , , , , , , , , ,
		SIGHA	RANGE	N
10 = 07332	1,36	.48	1.00 - 2.00	85
Þ.				
7) CAUSES DISRUPT	ION TENSIO	M RACIAL CO	ONFLICY	
	M == 4 41	6 * 0 11 1	0.1100	
IU = 07333			RANGE 1.00 → 2.60	N 28
, , , , , , , , , , , , , , , , , , ,	****	•	reno - cento	Ç. 17
•				
at MAR - HAN GHOTHO	UDNE HODE	LINEATO ON	V DI LEVE ADE DUCE	: n
8) ONE-WAY BUSING	HOMI WONK	OMPAIR OR	LI BLAUNS ARE BUSE	20
	MEAN	SIGMA	RANGE	N
ID # Ø7334	1.21	, 41	1.00 - 2.00	85
		•		
31				
9) OTHER: BLACKS	HISS OUT O	N OWN CULTU	URE TEACHER CANT (COPE .
10 = 07335	MEAN	SIGMA	RANGE	N
** - 41373	1,21	.41	1,00 - 2,00	88
			-	
MM . Alle M				•
TEACHER WORKS WITH	H FELLOW T	EACHERS IN	HIS SUBJECT MATTE	∴R
*	MEAN	SIGMA	RANCE	N
ID = 0/336	1.11	.31	1.00 . 2.00	28
	•		, •	



WORKS WITH FELLOW PLANNING IO # .07337	TEACHERS MEAN 1,59	S 1) BY SHAR SIGMA .78	ING IDEAS MATERIA RANGE 1.40 - 3.00	N
10 % (81351	4 8 27	* 1.0	1.00 . 2.00	27
2) BY FORMAL STRU MEETINGS	CTURED HE	ETINGS CUER	IÇULM DAY DEPARTH	IEN T
10 = 07336	MEAN 1.63	516HA • 48	PANGE 1.80 - 2.00	N 16
3) BY MEETING INF	ORMALLY I	N LOUNGE HAL	LLS	
10 = 07339	ME AN 1.19	SIGMA .39	RANGE 1,00 - 2,00	N . 16
'4) CONTACT LIMITE	D BY COH	MABTYYTEAM S	STRUCTURE OF FACU	LTY
ID = 07340	MEAN 1.31	SIGMA .46	RANGE 1.00 - 2.00	N 16
5) BY MEANS OF SU	PERVISORY	ROLE DEPAR	TMENT CHARMAN COO	RDINATOR
ID = Ø7341	Mean 1,50		RANGE 1,00 ≈ 2,00	N 16
TEACHER WORKS WITH NOT AT ALL	H SCHOOL	COUNSELOR:	I) AS LITTLE AS P	
ID # 07342	MEAN 1.00	SIGHA O, NO	RANGE 1,00 + 1,00	N 16
2) FOR ACADEMIC SE	CHEDULING	CHOOSING H)	GH SCHOOL COURSE	s
ID = 07343	MEAN 1,25	SIGHA . 43	RANGE 1.00 ≈ 2.00	N 88
3) TEACHER REFERS	BEHAVIOR	OR EMOTIONA	•	OUNSELING
ID = 0/344	MEAN 1,14	GIGHA 25	, RANGE 1.00 - 2.00	88 85



4) GETS ADVICE BAC	KGROUND 1	INFORMATION	TEST DATA ON STU)ENTS
	MEAN,	SIGITA	RANGE	N
10 = 07345	1,39	849	1,00 - 2,00	58
-	2			16.42
5) COUNSELOT LUADS CAREERS	GROUP OI	scussion Hu	MAN RELATIONS PRO	IGRAM .
	MEAN	SIGNA	RANGE	И
10 = 07346	1,46	•50	1.00 + 2.00	28
				•
				_
6) COUNSELOR HAS C	ONFERENCE	S WITH TEAC	HER STUDENT PAREN	T
711 m 0774m	HEAN	SIGNA	RANGE"	N
10 = 07347	1.14	• 35	1.00 - 2.00	28
			., 🙀 .	
7) OTHER: WORK WIT	H COUNSEL		ETREATO OVER LUNC	H
*0 = 077#6	MEAN	SIGNA	RANGE	Ŋ
ID = 07348	1,29	• 45	1.00 - 2.00	28
ADVANTAGES OF STUD	FNT YGACH	69• 43 70/C	UEB HAG HAG A GYN	
TEACHER	CHI PERCH	rue 11 ieur	HER MAS HAU A SIU	DENT
	MEAN	SIGHA	RANGE ~	N
10 = 07349	1.18	.38	1.00 - 2.00	85
2) TEACHER GETS NEI	H IDEAS LI	EARNS FROM	STUDENY TEACHER	
	MEAN	SIGMA	RANGE	A I
ID = 07350	1.46	.50	1.00 - 2.00	8.S
3) TEACHER HAS INCE	•			HER-
ID = 07351	MEAN	SIGMA .	RANGE	M
	1,33	• 47	1.00 - 2.00	15
•			~	

4) TEACHER HAS MORE TIME FOR PLANNING, CLERICAL WORK

1D = 07352 HEAN SIGMA RANGE N 1.53 ,50 1.00 - 2,00 15

5) PROFFSSIONAL D REWARDING FEELING	UTY TO HEL	P NEW TRAC	HER; TCHR GETS GO	op 5
ID = 07353	MEAN 1,33	SIGHA	RANGE	N
10 4 41222	+ 9 3 3	. 47	1.00 - 2.00	15
, ,		,		
6) GOOD FOR STUDE			NEW PERSON, DIFFE	ERENT
ID = 07350	MEAN	SIĞMA	RANGE	N
מנגווא ש נוב	1.20	.49	1,00 - 2,00	15
v ,	,		~	Ţ
7) OTHER: SEE HOW.	STUDENTS	REACT WITH	SOMEONE ELSE	
•	MF AN	SIGNA	RANGE	N
10 = 07355	1,20	.40	1.00 - 2.00	15
	•	*		
•			,	
DISADVANTAGES OF SEFFECT OF ST TCHR	STOT TCHH:	1) TEACHE	R HAS NEG EXPECT ()F
4	HEAN	SIGHA	RANGE	N
10 = 07356	1.47	• 50	1.00 - 2.00	15
g) DISCIPLINE PRO	•			
ED = 07357	MEAN 1.81	SIGNA .41	RANGE 1,00 - 2,00	N 14
2.7 - 01337	φ (a 4 ^	• • •	1 9 9 5 E 10 D	1 -4
		*		
3) STUDENT TEACHER TEACHER		•	•	ORK FROM
ID = 07358	MEAN 1.29	SIGMA .45	RANGE 1.00 - 2.00	N 14
	• • •	V 12	2430	* -4
\$				
4) STUDENTS HAVE I	PROBLEMS A	OJUSTING T	D NEW-TEACHER	
•	MEAN	SIGMA	RANGE	N
ID = 197359	" 7 • 20	~ 50	1.00 - 2.00	14
			•	
5) TEACHER LOSES (CONTACT WI	TH STUDENT	5	
	HEAN	SIGHA '	RANGE	N
ID = 07360	1,29	.45	1,00 - 2,00	14
• •	<i>,</i> •			



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Q3

63 OTHER DISADVANTAGES

CAT MATH TEST 1) TEACHER IS FAMILIAR WITH MATERIAL OF TEST

1

MEAN SIGMA RANGE N 10 = 07362 1.43 .49 1.00 = 2.00 14

2) TEACHER REGARDS TEST AS ADEQUATE MEASURE OF STUDENTS MATH & ABILITY

MEAN SIGMA RANGE N 10 = 47363 2,32 ,80 1.60 ≈ 3,00 28

DROPPED

MEAN SIGMA RANGE N 1D = 07364 1.96 .61 1.00 = 3.00 23

TEACHER USE REMEDIAL TECHNIQUE TO TEACH MATH TO STUDNTS WHO CANT READ WELL

MEAN SIGMA RANGE N ID = 07365 1.46 .50 1.00 - 2.00 28

TEACHER USES AVOIDANCE TECHNIQUES 1) TEACHER STUDNYS READ TO NON-READER

2) GIVE ORAL DIRECTIONS, EXPLAIN VERBALLY, DISCUSS

MEAN \$1GMA PANGE .N 10 = 07367 1.54 .50 1.60 = 2.00 28

3) NO WORD PROBLEMS, TAKE READING OUT OF ASSIGNMENTS

4) OTHER: GAMES, PACKETS, PUZZIES, ETC.

MEAN . SIGHA RANGE ID = 07369 1.36 . 48 1.00 - 2.00 85

USES BOTH REHEDIATION AND AVOIDANCE TECHNIQUES

MEAN SIGNA -ID = 67370' 1,39 .49. 1.00 - 2.00 85

AHOUNT OF PROGRESS MADE BY SLOWER STUDENTS

MEAN SIGMA RANGE ID = 07371 1,e.68 .71 1.00 - 3.60 85

DROPPED

MEAN SIGMA RANGE ID = 07372 1.36 .48 1,00 - 2,00 85

. TEACHER DIFFERENTIATES PROGRESS AMONG SLOWER STUDENTS

SIGHA MEAN RANGE 10 = 07373 1.32 .47 1,00 - 2,00 28

TEACHER ATTRIBUTES PROGRESS OR LACK OF PROGRESS TO 1) AMT OF CONTACT

SIGMA MEAN RANGE ID = 07374 1.54 .50 1.00 - 2.00 85

2) AFFECTIVE VARIABLES MOTIVATION CONFIDENCE PRAISE TRUST

MEAN SIGMA RANGE ID = 47375 1,39 .49 1.00 - 2.00 28

3) ACADENIC FACTORS: METHODS, ATERIALS STUDENT ABILITY

MEAN SIGHA RANGE N ID = 07376 .38 1.00 - 2.00 1.18 28

4)	язнто	REASONS	FOR	PROGRESS	OR	LACK	0F	PROGRESS

è			MEAN	SIGHA	RANGE	N
ID	= (87377	1.50	• 50	1.00 - 2,00	26

TEACHER GAVE REASONS FOR STUDENTS PROGRESS

4.15 4.15 1.1	MEAN	SIGMA	RANGE	N
IO = 07378	+0,00	*N. 60',	~0°60 ~ ~0°60	9 0

TECHNIQUES FOR TEACHING SPELLING 1) GOING OVER PROMUNCIATION MEANING

	•	MEAN	SIGHA `	RANGE	N
ID # 07379		~0 _* 00	-0.00	ଅପ୍•ିପ୍ତ କ ଲ୍ରୁପ୍ତ ବ	⇔ Ø "

2) DIVIDING WORDS INTO SYLLABLES

- "		MEAN	SIGMA	RANGE	N
10 =	07350	-0.00	-0.00	-0.000.00	~ 0

3) USING IN SENTENCES, IN CONTEXT

4) DOING DRILL, WRITTEN EXERCISES

5) DOING PUZZLES, WORD GAMES, USING FLASH CARDS

L) DOING ORAL WORK, REPETITION, BOARD WORK, SPELLING BEES

10 - 43nn.	MEAN	SIGMA RANGE		N
10 = 07384	~0.00	•0.00	00,00 0,00	-0



7) TEACHING RULES, PHONETIC CONCEPTS

10 = 07385 - -0.00 -0.00 -0.00 -0.00 -0

8) STRESSING RECOGNITION OF WORK ROOT

. MEAN SIGHA RANGE N ID = 07386 -0.00 -0.00 -0.00 -0

9) GIVING TESTS; EITHER PRETEST OR END OF UNIT TEST

MEAN SIGMA RANGE N ID = 07387 -0,00 -0,00 -€

10) OTHER: GIVING ORAL DIRECTIONS; READ TO STUDENT, ETC.

MEAN SIGHA RANGE 'N ID = 07388 +0.00 +0.00 +0.00 -0.00 -0

11) USING INDIVIDUAL SEATWORK DNLY TO TEACH SPELLING

MEAN SIGMA RANGE N ID = 07389 =0,00 =0,00 =0,00 =0

12) USING WHOLE CLASS ACTIVITIES ONLY TO TEACH SPELLING

MEAN SIGMA RANGE N 10 = 07390 = 0.00 = 0.00 = 0.00 = 0

13) USING BOTH SEATWORK AND CLASS ACTIVITIES TO TEACH SPELLING

6 MEAN SIGMA RANGE 'N #0.00 #0.00 #0.00 #0.00 #0

TECHNIQUES FOR STUDNIS WHO CANT READ WELL GRADE LEVEL 1) USE SPECIAL MIRLS

HEAN SIGHA € RANGE N
ID = 07392 -0.00 -0.00 -0.00 -0.00

		•	•	
2) TEACHER USE	S INDIVIOUAL	HELP EXTR	A ORAL READING SPE	CIAL
ATTENTION	٠٠	ی		,
fD = 87707	MEAN	SIGMA	RANGE	N
(D = 0,7393	6.06	•0°68	-0.00 u u0,00	- ()
c,	,		,	
TEACHER USE	S PEER TUTOR	s correct :	STUDENTS	
O	MEAN	SIGMA	RANGE	N
D = 07394	-0.00	⇔ଖ୍ୟୁ ଖ୍ର	RANGE - 80.00 .	- 0
•				١
) TEACHER USE	S RESOURCE TI	EACHER. REA	ADING SPECIALIST, F	95 km 4 i
KILLS LÂB			· · · · · · · · · · · · · · · · · · ·	'C'AD L'
- A.	W. MEAN	SIGNA	RANGE	N
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c	•		·	
) TEACHER USE	S AUDIOVISUA	AIOS	,	
	MEAN	ŞIGHA	RANGE	N
D = 07396	- •0.00 •	∞ស • 6: ស	-0.000.00	-0
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1 OTHER: GIVE	S OPAL DIDECT	TTOUS: OFAT	TO STUDENT, ETC.	4
	or or a contract	, xono, man	o to brookers area	
		SIGMA		N
0 ¥ 07397	~0.00	: -6.60	±6,00 - − 0,00	-8
		·	~	
) TEACHER USE	5 TECHNIQUES	TO REMEDIA	TE READING PROBLEM	1
	MEAN	SIGMA	RANGE	N
D = 07398	⇔ଗ୍,ପ୬	∞0.00	•0.00 - ≥0.00	- Ø
•				
EACHER USES PI	ER TUTORING			
	MEAN	SIGMA	RANGE	N
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			~	
DVANTAGES OF I	PEER TUTORING	i) naximi	ZES TEACHER TIME A	MD
I VIX I	MEAN	SIGNA	RANGE	N
0 = 47400	=0.00			+• (d

2) HAS ACADEMIC ADVANTAGES FOR THIEE

3) HAS AFFECTIVE ADVANTAGES FOR TUTEE

ID = 87402 HEAN SIGMA PRANCE N -0.00 -0.00 -0.00 -0.00 -0

4) HÁS ADVANTAGES FOR TIOTOR BOTH ACADEMIC AND AFFECTIVE

DISADVANTAGES OF PEER TUTORING 1)STOTS SKILLS AND KNOWLDG LIMITS EFFCTVNSS

ID = 07464 - MEAN SIGRA RANGE N -0.60 -0.60 -0.60 -0.60

2) TUTORING SESSION MAY TURN INTO SOFIALIZING

3) TUTOR-TUTEE INTERPERSONAL PROBLEMS MAY ARISE

ID = 07406 MEAN SIGMA. RANGE N

4) PEER TUTOR PENALIZED ACADENICALLY TAKES TIME FROM DWN WORK

TEACHER HAS STUDENTS READ ALOUD

ID = 07408 MMAN SIGHA RANGE N -0.00 -0.00 -0.00 -0.00 -0.00 -0.00

TEACHER HAS STUDENTS READ ALOUD 13 TO ASSESS ABILITY CATCH **PROBLEMS** MEAN SIGHA RANGE N 10 n 07409 -0.80 90,00 -0.00 - -0.00 2) TO INSURE THAT ALL UNDERSTAND TO AID FOOR READERS HEAN STGMA RANGE ID = 07410 20.0° e0.00 ~9.00 ~ ~0.00 3) DECAUSE SYMPERTS ENJOY READING ALOUD MEAN SIGMA RANGE 10 = 07411 and 000 -0.00 40.00 - 40.00 4) TO FACILITATE PARTICIPATION INCREASE INTEREST MEAN SIGHA RANGE ID = 07412 -0.00 -0.00 -0.00 - +0.00 5) TO FACILITATE DISCUSSION QUESTIONS MEAN SIGHA RANGE 10 = 07013 n0.00 -0.09 -0.00 - -0.00 6) AS TEACHING TOOL GIVES PRACTICE SIGMA HEAN RANGE ID = 07414 -0.00 ~0.00 -0.00 - -0.00 7) OTHER REASONS TO HAVE STUDENTS READ ALOUD . MEAN SIGMA RANGE ID = 07415 -0.00 ·· -0.00 -0.00 m0.00 APPROPRIATE COMPOSITION CRITERIA: 1) PUNCTUATION CAPITALS SIGHA MEAN PANGE ID = 07416 or 19 . 15 19 m(1,00 ***0.00 - -0.00**

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2) SPELLING

3) GRANMAR

4) COMPLETE SENTENCES GOOD SENTENCE STRUCTURE

5) PARAGRAPHS, TOPIC SENTENCES

6) SPECIFIED LENGTH

7) OTHER COMPOSITION CRITERIA

8) GRGANIZATION, COHERENCE, STRUCTURE, UNITY

9) CONTENT, SUBJECT THAT CHALLENGES, INTERESTS STUDENT

10) CREATIVITY, ORIGINALITY, SELF + EXPRESSION

MEAN SIGNA RANGE N 1D = 07425 =0.00 =0.09 =0.00 =0

11) HECHANICS ONLY

MEAN SIGMA RANGE N ID = 07426 +0.60 +0.00 +0.00 +0.00 +0.00 +0.00

12) CONTENT STURCTURE

MEAN SIGMA RANGE N 1D = 07427 -0.00 =0.00 =0.00 =0

GAMES FUN DEVICES USED 1) FOR INSTRUCTION SOCIAL INTERACTION

MEAN SIGHA RANGE N 10 = 07428 =0.00 =0.00 =0.00 =0.00 =0

2) AS INSTURCIONAL SUPPLEMENTS

3) FOR PROMOTING SOCIAL INTERACTION GETTING TO KNOW STUDENTS

MEAN SIGMA RANGE N 10 = 07430 -0.00 -0.00 -0.00 -0.00 -0

A) RARELY DURING THE YEAR

MEAN SIGMA RANGE N 10 = 07431 -0.00 -0.00 -0.00 -0

WAYS NON-WRITTEN LANGUAGE IS USED TO TEACH 1) ORAL REPORTS :

SPEECHES DEBATE

MEAN SIGNA RANGE N 10 = 07432 -0.00 -0.00 -0.00 -0 2) ACTING, ROLE . PLAYING, PANTOMINE

MEAN SIGMA RANGE N ID = 07433 +6.00 +0.00 +0.00 +0

3) READING ALOUD STORIES, PLAYS, POETRY

MEAN SIGMA RANGE N

10 = 67434 -0.00 -0.00 -0.00 +0

4) ART, BULLETIN BOARDS, POSTERS

MEAN SIGHA RANGE N 10 = 07435 +0.00 +0.00 +0.00 +0.00

5) OTHER; GAMES, LISTENING STATION

MEAN SIGMA RANGE N 30 = 07436 1.25 43 1.00 = 2.00 28

REASON FOR DIFFERES BETWEEN CLASSES OBSERVED: 1) SIZE OF CLASS

2) TIME OF DAY

MEAN SIGMA RANGE N 10 = 07438 1.11 .31 1.00 - 2.00 28

3) DIFFERENT ABILITY LEVELS DUE TO TRACKING OR ABILITY GROUPING

MEAN SIGMA RANGE N ID = 07437 1.50 .50 1.00 + 2.00 28

4) DIFFERENCE IN ABILITY LEVEL: SOME CLASSES BRIGHTER THAN OTHERS

MEAN SIGMA RANGE . N 10 = 07440 1.21 .41 1.60 + 2.00 28

51	FXTRS	MES N	F ABTI	1 T U	LI / T KI	CLASS	VEDELLE	. unio	CNEOUC	ABILITY
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83	DIFFE	RENCES	3 IN C	LASS	PERS	ONALIT	Y, INTE	RPERSO	NAL REL	ATIONS
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9)	DIFFE	RENCES	IN T	EACH	er=st	UDENT	RELATI	ONSHIP	TEACHE	R AFFECT
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T D	= 074	/1. 7		MEAN		SIGMA		RAN		N
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12)	BY S	EX AND	RACE	HAKE	~UP					
	•	ي.		MEAN	ı	SICHA	J	RAN	25	\$ 1
ID	= 074	48		1.18		38.			2,00	ν 58 Ν
									•	

13) OTHER:	Roon	18	HOT .;	ATTENDANCE	PATTERNS, ETC.
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	MEAN	SIGMA	RANGE	N
ID = 07449	1,61	. 49	1.00 - 2.00	59

STUDENTS RANDOMLY ASSIGNED TO CLASSES AT THIS SCHOOL

	MEAN	SIGMA	RANGE	14
ID = 07450	1,18	.38	1.00 - 2.00	85

TEACHER RESPONSIBILITIES TO DIFF KINDS OF STUDNTS:1) TEACH DOESNT SAY

	MEAN	SIGMA	RANGE	N
ID = 07451	1.39	.49	1,00 - 2,00	58

2) TEACHER VARIES METHODS BUT NOT CURRICULUM \

<u>-</u>	MEAN	SIGMA	RANGE	N
ID = 07452	1.07	.26	1.00 - 2.00	28

3) TEACHER VARIES CURRICULUM MATERIALS EMPHASIS BUT NOT METHODS

	MEAN	. Sigha	RANGE	N
70 = 07453	1.25	. 43	1,00 - 2,00	28

4) TEACHER VARIES BOTH CURRICULUM AND METHODS

		MEAN	SIGMA	RANGE	N
ID # 07454	•	1.32	.47	1.00 - 2.00	28

5) TEACHER VARIES STRUCTURE DISCIPLINE CONTROL

	MEAN	SIGMA	RANGE	N
10 = 07455	1.04	.19	1.00 - 2.00	28

6) OTHER: TEACHER DOES NOT ADJUST REACH EVERYONE WITH BASICS

	MEAN	SIGMA	RANGE	N
IO = 07456	1.47	.50	1.00 - 2.00	15



7) TEACHER ADJUSTS IN RESPONSE TO ABILITY LEVEL, OR INDIV.

MEAN SIGNA RANGE N 1,20 .40 1.00 15

8) TO CLASS PERSONALITY, INTERESTS, ATTITUDES, ENOTIONAL NEEDS ONLY

10 = 07453 1.33 0.47 0.00 - 0.00 0.15

9) TO BOTH ABILITY AND PERSONALITY OF THE CLASS

FACTORS ABOUT WHICH TEACHER CAN DO LITTLE: 1) LACK OF PARENT CONCERN INTRST

ID = 07460 MEAN SIGMA RANGE N 1.18 .38 1.00 - 2.00 28

2) HOME PROPLEMS, HOME ENVIRONMENT

ID = 07461MEAN SIGMA RANGE N
1.18 .38 1.00 \Rightarrow 2.00 28

3) LEARNING DISABILITY, LOW IG, HYPERACTIVE, NON-READERS, ETC.

10 = 07462 MEAN SIGMA RANGE N 1.14 .35 1.00 = 2.00 28

4) EMUTIONAL PROBLEMS, ADOLESCENCE, POOR PEER RELATIONSHIPS

ID = 07463 MEAN SIGMA RANGE N 1.25 ,43 1.00 - 2.00 28

5) DISCIPLINE, BEHAVIOR PROBLEMS, DISRUPTIVE, ANTOGONISTICS STUDENTS

ID = 07464 MEAN SIGMA RANGE N 1.43 .49 1.00 - 2.00 28



6) LACK OF INTERES				
10 = 07465	MEAN 1.14	SIGMA .35	RANGE 1,00 - 2,00	98 N
7) STUDENT PERSONA	ALITY, OR 1	TEACHER#STU	DENT PERSONALITY (CONFLICT
ID = 07/166	" MEAN 1.51	sigma .31	RANGE 1.00 - 2.00	88 N
6) RACIAL, ETHNIC, C	CULTURAL E	AACKGROUND	AND VALUES	. . -
ID = 07467	MEAN 1.25	SIGMA ,43	RANGE 1.00 - 2.00	58 N
9) CLASSROOM GIVEN	NS: SIZE,	TIME FF DAY	, AVAILABLE MATERIA	LS, ETC.
ID = 07468	MEAN 1,11	SIGMA .31	RANGE 1.20 - 2.00	59 N
10) CAN ALWAYS TR	Y TO DO SI	OMETHING; 6	GAN DOG ATTITUDE	
10 = 07469	MEAN 1.21	SIGMA .41	RANGE 1.00 - 2.00	88 8
	E,SCHOOL	POLICIES, GE	T STUCK W/ PROBLE	M KIDS,
ID = 07470	MEAN 1.37	SIGHA •48	RANGE 1.00 - 2.00	N 27
MOST IMPORTANT AT		A TEACHER N	EEDS 1) PATIENCE	FORTITUDE
10 = 07471	. MEAN 1.11	SIGMA .31	RANGE 1.00 - 2.00	N 2,8
2) SENSE OF HUNDR	`		,	
10 = 07472	MEAN 1.10	SIGHA .38	RANGE 1.00 - 2.03	8 S

ERIC

3) ENERGY HEALTH

		MEAN	SIGMA	RANGE	И
10	= 0747	1,07	• 26	1.68 - 2.90	28

4) HONESTY SINCERTTY

5) GOOD CONSISTENT FAIR DISCIPLINE AND CONTROL

6) UNDERSTANDING CONCERN CARING INVOLVEMENT WITH STUDENTS THEIR PROBLEMS

	MEAN	SIGMA	RANGE	N
10 = 0747	1.29	. 45	1,00 - 2,00	23

7) LIKE CHILDREN AND TEACHING DEVOTION ENTHUSIASM DESIRE

	MEAN	SIGMA	RANGE	N
10 = 07477	1.14	.35	1.00 - 2.00	28

8) CUMMUNICATION SKILLS

9) FLEXIBILITY OPENNESS TO NEW IDEAS METHODS

10) GOOD KNOWLEDGE OF SUBJECT MATTER

11) GOOD TEACHI	AC SKIFFS VE	וווויץ דס ו	EXPLAIN PREPARE HOT	VATE
ID = 07481	MEAN	SIGHA	RANGE	58
	1.14	,35	1,00 - 8,00	N
12) CONCEPT OF	APPROPRIATE	TEACHER/S	TUDENT RELATIONSHIP	
10 = 07482	MEAN	SIGHA	RANGE	N
	1.26	.44	1.00 - 2.00	27



associated with a decrement in attitudes and achievement, especially in classes of low average ability.

Comparison of Cognitive and Affective Math Results

One aspect of the teacher self-report results for math classes is the relatively high correspondence between results with respect to achievement and student attitude. Tables 2.3 through 2.7 include 25 variables that had similar relationships with these two different product measures. (Seven of these included interactions with either attitude or achievement, but when interaction occurred, the overall trend was the same for both achievement and attitude.)

Teachers whose (classes had high average gains in math achievement were also rated high (in generalized likability) by students. It is not surprising then that many teacher characteristics or self-reported practices which were also associated with high math achievement were associated with high student ratings of the teacher. None of the pairs of tests of relationships resulted in opposite or contrasting findings with respect to achievement and attitude, i.e., self-report variables associated with high achievement were never associated with negative student attitude toward teachers in our math sample. The findings for both attitude and achievement will be grouped and discussed under several headings or categories. Variable numbers accompany the variable labels to facilitate reference to the tables.

Instructional Organization

Table 2.3 shows findings with respect to instructional organization. In general, results favor math teachers with reported commitments to a structured, whole-class, teacher- and textbook-centered approach. The following variables were both associated with high average achievement:



- 06014 Teachers report spending high percentage of time teaching the class as a whole; and
- 07255 Teachers report that almost all class discussion involves whole class.

Teachers report spending a high percentage of time teaching subgroups (Variable 06013) was negatively related to student ratings of the teacher. The implication is for active teaching focused on the class as a whole, not small groups or seatwork.

Teachers think a high percentage of class time should be spent in class discussion (Variable 06008) was related positively to achievement, but reported preference for use of detailed lecture (Variable 07064) was associated with low achievement and low student ratings of the teacher.

Consistent with findings for a whole-class approach were results relating to ability grouping. Teachers' use of ability groups with different assignments was associated with low achievement and low student liking of teachers (07021 and 07025). Results were more positive for individualizing, however. Teachers cope with different ability levels in class by differential testing, grading, and expectations (07007) was positively related to achievement; and Teachers individualize only (do not group) (07024) was positively related to attitude.

There were a number of interactions with student attitudes which bear mentioning. High-ability students appeared to like classes where teachers indicated high expectations for performance. The following four variables show patterns of positive relationships for the high-ability students, but negative ones (or none) for low-ability students.

06010 and 06011 Teachers prefer a high level of errorless performance in class discussions and seat work;

07256 Teachers report use of frequent class discussion; and

06001 Teachers expect high percentage of students to master the curricu-

One interpretation here is that teachers who maintain high expectations and perhaps a rapid pace in their classrooms are able to produce exciting and interesting class experiences with high-ability students, but lose the low-ability students. Perhaps low-ability students are not able to cope quite as well in classes where teachers hold these kinds of expectations.

Variable 07001, Teachers report that having a variety of ability levels in one room is a problem, was associated with low student ratings of the teacher for both ability groups. Interpretation of this finding is difficult, especially in view of results obtained for teacher self-reports of strategies they use to cope with range of ability in their classes. Variable 07267, Teachers report that class discussions have disadvantages because the discussions do not go well or get misdirected, was related to low student ratings among low-ability students only. Possibly this indicates that at least in low-ability classes, teachers have not had much success in coping with class discussion and have not been able to bring this off effectively, hence, the negative relationship for low-ability students for this variable.

Two variables suggest that attempts to water down the curriculum, or slow the pace, may be negatively related to student attitude for high-ability students:

07008 Teachers cope with different ability levels in class by using a whole class approach and teaching to the average; and

07002 Teachers cope with different ability levels just by dividing up the class.

These show negative relationships with high-ability students attitudes. The findings for low-ability students, however, are mixed. In some cases, the suggestion is that teaching to the middle of the class and dividing up the class is positively related to attitudes among low-ability students but in other cases, the indications are that they are not. For variables 07008, 07002, and 07010 the findings for lows are mixed.

In summary, a number of findings related to instructional organization show effects for achievement. These tend to suggest that teachers who teach the whole class and do not divide the class into smaller groups have a positive effect on achievement. On the other hand, teachers' reports of grouping and individualizing in some way were negatively related to student achievement With respect to students' attitudes, teachers' reports of grouping of any sort tends to have negative relationships with student attitudes. teachers' reports of relative lack of success with using class discussions also was associated with low attitudes, particularly for low-ability students. A final suggestion is that high expectations tend to be facilitative for highability students' attitudes, but not for low-ability students' attitudes. One possibility is that high-ability students are able to master curriculum requirements much more quickly; slowing down the lesson pace or going back to reteach low-ability students may result in boring and uninteresting classes. On the other hand, high expectations and quick pacing may tend to lose lowability students. As reports of their attitudes suggest, these kinds of situations may be highly failure-laden and tension-producing for the lows.

Variable Number	Variable Description	Relationship with Achievement Main Interaction	Relationship with Attitude Main Interaction
Instruct	ional Organization	,	
06014	Teachers report spending high percentage of time teaching to class as a whole	. +	
07255	Teachers report that almost all class discussions involve the whole class	+	
06013	Teachers report spending a high percentage of time teaching subgroups	<i>*</i>	· -
06008 4	Teachers think a high percent- age of class time should be spent in questions, discus- sions	<i>,</i> +	
-070 <u>6</u> 4	When presenting new material teachers explain lifferent ways; use small steps, repeat, give detailed lectures	-	-
07021	Teachers use ability groups given different assignments	· · - , ,*\	''
07025	Teachers group only (do not individualize)	•	•
07007	Teachers cope with different ability levels in class by differential testing,—grading, expectations	+, .	•
07024 .خ	Teachers individualize only (do not group)	•	+
06010	Teachers prefer high level of errorless performance in class discussions		Hi + Lo -

Variable Number	Variable Description	Relationship with Achievement Main Interaction	Relationship with Attitude Main Interaction
Instruct	ional Organization		
06011	Teachers prefer high level of errorless performance in seatwork		Hi + Lo - \
07256	Teachers report use of frequent class discussion	•	Hi + Lo 0
06001	Teachers expect high percent- age of students to master curriculum	•	Hi + Lo -
07 267	Teachers cite following dis- advantage of class discus- sions: discussion may get misdirected, petty, trivial		Hi O Lo -
07001	Teachers think that several ability levels in one room presents a problem		-
07008	Teachers cope with different ability levels in class by whole class approach, teach- ing to middle	\$	Hi - Lo +
07002	Teachers cope with different ability levels in class by ability grouping (only)		Hi - Lo +
07010	Teachers cope with different ability levels in class in some active way rather than avoiding the problem		Hi O Lo -

Evaluation Practices

Tab! 2.4 shows results with respect to reported evaluation practices.

Math teachers' reports that they assess student mastery levels by using their own self-made diagnostic tests or by using standard diagnostic tests were

positively related to achievement, particularly for high students (07042, 07040). On the other hand, teachers who report assessing student achievement at the beginning of the year by checking personal files or by asking the counselor or other teachers (07037) showed lower student achievement. Finding out causes of learning problems by contacting parents (07049) was also negatively associated with student achievement. This finding makes sense if one can make the assumption that teachers have enough knowledge about their students for them to make these decisions for themselves. All of these findings suggest that experienced math teachers who are likely to get the greatest gains from their students tend to rely on their own knowledge of what the students need to know or on objective measures.

The findings for Variables 06017 and 06107 suggest that teachers who tend to be rated highly by students are those who use and rely on standardized tests. Findings for Variable 06058 are somewhat contradictory, however. (See discussion of this variable in Table 2.7, Teacher Characteristics.) Frequent testing (07027) was associated with positive attitudes for high-ability students, but not for lows. The suggestion here is that highs may have benefited from the practice of test-taking, but lows may have met the test-taking situation with anxiety and inattention. On the other hand, reports of regular use of a curve in grading (07062) had the reverse association. Regular use of a curve was negatively related to attitude among high-ability students, but positively related to lows' attitudes. It seems reasonable that lows may tend to benefit from a curve, whereas highs do not necessarily.

Teachers' reports that they use a step-by-step process to diagnose learning problems (07051) and their reported use of correctly done seatwork to measure their success (06025), both showed positive relationships with student attitudes. This suggests that the more realistic a teacher is about measuring



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the products of learning objectively, the more likely that students' attitudes will be positive. On the other hand, teachers' reports of measuring their success by such extraneous factors as students' beginning their work quickly after a lecture or explanation were negatively related to achievement (06023). Consistent with this general pattern is the finding that when well-liked teachers use ability grouping, the groups are based on some rational system and assessment of work (07013). Teachers' measuring their success by slower students' appearance of understanding was related to positive attitudes among low-ability students, but to negative attitudes among high-ability classes The report that rules and procedures in each of the two observed classes differ according to academic expectations for students (07112) shows positive relationships for high-ability students' achievement, but no relationships for low-ability students' achievement. This suggests that certain techniques may be used effectively in classes where students have high ability levels, but these same techniques may be ineffective for lows. possible that changing rules and procedures according to academic expectations for students is a vehicle for the expression of low expectations for low students.

In general, results with respect to evaluation practices indicate that effective math teachers take their roles as diagnosticians and evaluators seriously. They report relying on self-made or standardized tests for student pretesting and diagnosing, rather than depending on less objective data from counselors, other teachers, or even parents. Their responses also imply that they put some time and effort into test preparation (07034, 07033) and diagnosing learning problems. While all of the findings do not support this generalization, the vast majority nevertheless did fit this pattern.

Table 2.4 Variables Related to Math Achievement and Student Attitude

Variable Number	Variable Description	Relationship with Achievement Main Interaction	Relationship with Attitude Main Interaction
Evaluation	on Practices		
07042	At beginning of year teachers find students' achievement levels by using self-made diagnostic tests	+	
07040	At beginning of year teachers find students' achievement levels by using standard diagnostic tests	Hi + Lo -	
07037	At beginning of year teachers find students' achievement levels by checking personal files; ask counselor, other teachers	·	
07049	Teachers find cause of learn- ing problems by contacting parents	-	
06017	Teachers believe that achievement test scores give more valuable information about students than past grades or other more subjective evaluations		+
06107	Teachers agree that IQ tests merely label students and should not be used	-	``
06058	Teachers rate ability to equip students to do well on standardized tests as important to good teaching		. ·
07027	Teachers give tests frequently (excluding spelling)		Hi + Lo -



Variable		Relationship with Achievement	Relationship with Attitude
Number	Variable Description	Main Interaction	Main Interaction
Evaluati	on Practices		,
07062	Teachers report regular use of curve in grading		Hi - Lo +.
07051	Teachers report use of step-by-step process to diagnose learning problems		+
06025	Teachers measure their success by correctly done seatwork		+
06023	Teachers measure their success by students beginning work immediately	-	
07013	When teachers use ability grouping, groups are based on observation, assessment of work		
06024	Teachers measure their success by slower students appearing to understand		Hi - Lo +
07112	Teachers report that rules and procedures differ among their classes in terms of academic expectations for students	, Hi + Lo Ȯ̀	,
07034	Teachers report disadvantages of self-made tests: takes much time, effort, work to make a test	+	+
07033	Teachers report disadvantages of self-made tests: valid- ity, reliability; do not cover all skills		. • ·



Classroom Management

Table 2.5 summarizes relationships with respect to classroom management. Math teachers who reported preferring a fairly structured classroom environment and accepting personal responsibility for management and discipline in their classes had higher achievement and positive student attitudes. Posting or otherwise visually clarifying class rules (07115) was positively related to achievement and attitude. Use of some student input into class rules at the beginning of the year (07117) was also associated with positive student ratings of teacher. Teachers' emphasis on students' coming to class prepared (07085) was associated with high scudent ratings of teachers and high achievement among low-ability classes (though not significantly for high-ability classes). Teachers' laxity in enforcing due dates for assigned work (07098) was associated with low student ratings, and reported enforcing of due dates (07099) with high student ratings of teachers. However, enforcing a time limit for missed work (07103) had differential relationships to attitudes for the two ability groups. There was a negative relationship for highs, but a positive one for lows. The opposite was true for achievement: When teachers reported giving leeway for "excused" late papers (07096), highs tended to benefit, but lows did not.

Teachers' preference for a structured system for students' contributions to class discussions was supported by Variables 07146 and 07148. In addition, teachers' perception of a role consistent with a structured class (07245) was positively related to student attitudes toward teachers, suggesting that students may be more comfortable when guidelines are set which can ensure their chances to participate.

Results with respect to fixed versus flexible seating arrangements were unclear. Teachers' belief that maximal learning occurs with fixed seating



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(07137) was associated with high achievement and attitude. It should be noted, however, that Variable 07128 describing use of flexible (rather than fixed) seating in class was not significantly related to either product measure. Results with respect to Variables 07134 and 07135 were difficult to interpret since they appear contradictory.

Teachers' reported self-reliance with respect to discipline in class was strongly supported. Keeping students after class or after school (07229) and contacting parents (07230) were both positively relared to student ratings of the teachers. Using special privileges (07214, 07215) as rewards was related to high achievement among high-ability students, but not among low-ability students. There were no significant results with variables describing other strategies: talking to or warning students; student isolation; referral to counselors, principals, school detention, or school suspension.

Effective teachers view discipline as a complex issue (06006) and use positive, well-planned approaches to solving problems. Reported use of a step-by-step discipline process by teachers (07235) was associated with both high achievement and high student ratings. Additionally, reported use of reality therapy techniques (07226) was positively associated with attitudes. In-contrast, teachers' belief that they can do little about discipline problems (07464) was negatively related to student attitudes, and teachers' seeking outside help to deal with students who do not pay attention (07173) was also negatively associated with achievement. Teachers' reporting that fair, consistent discipline was the most important attribute of the effective junior high teacher (07475) showed a positive association with attitude.

The findings for these self-report variables suggest that effective classroom control and discipline are critical factors in student attitudes. The teachers' willingness to face discipline problems and to develop tech-



niques to cope with them may have a direct influence on the climate of their classrooms. Instances where teachers are effectively in charge may be crucial to providing a safe, calm learning environment for all students.

Other results with respect to student participation and behaviors were less meaningful (or harder to interpret because of interactions with ability levels of students), but tended to support the generalization that successful math teachers are active, self-reliant classroom managers: 06059, 07093, 07126, 07159, 07161, 07162, 07165, 07168, 07171, and 07209.

Table 2.5

Variables Related to Math Achievement and Student Attitude

Variable Number	Variable Description	Relationship with Achievement Main Interaction	Relationship with Attitude Main Interaction
Classroo	m Management		۵
07115	Teachers organize classroom at beginning of year by using visual aids; pass out or post rules	+	+
07117	Teachers organize classroom at beginning of year by using student input to establish and enforce rules		+
07085	Class rules include students must come prepared: bring supplies, homework, materials	·Hi 0 Lo+	+
07098	Teachers set deadlines beyond original due date for homework; loose on due dates		- ·
07099	Work is due on due date	•	+ ~
07103	Teachers set a time limit for turning in missed work		Hi - Lo +



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Variable		Relationship with Achievement	Relationship with Attitude
Number	Variable Description	Main Interaction	
Classroo	m Management		
07096`	Teachers distinguish between excused and unexcused absences in accepting late papers	Hi + Lo -	
07146	Teachers report problem with students not raising hands, blurting out answers	-	
07148	Teachers cope with call out problems by telling students to raise hand, wait, take turns		.
07245	Teachers believe to establish credibility one must maintain teacher role: know subject; be correct in manner		+
07137	Teachers believe that maximal learning occurs with fixed seating		+
07128	Teachers report use of flexible seating arrangement	•	
07134	Teachers feel that students are more happy and comfort- able with flexible seating than with fixed seating	•	
07135	Teachers feel that cliques form with flexible seats; fixed seating breaks		c
	them up		+
07229	Teachers report use of keep- ing after school, after class to handle disruptive students	`.	· · · · · · · · · · · · · · · · · · ·
07230	Teachers report use of con- tacting parents, sending notes home for handling disruptive students	Hi + Lo -	+

		Re	latio wit		híp		lationship with
Variable Number	Variable Description		chiev				Attitude Interaction
Mullber	variable bescription	Platin	THE	EIA	CCTOIL	Haili	Interaction
Classroo	m Management						
07214	Teachers report use of out- of-class privileges as reward for good work and behavior		Hi +		Lo -	٠	
07215	Teachers report use of in- class privileges (games films, talk, no test or homework, etc.) as motivating strategy		Hi +	+	Lo -		
06006	Teachers think discipline problems are due to factors other than student lack of interest in subject matter or laxity in enforcing rules	+			,	t s	
07235	Teachers report use of step- by-step process for handling disruptive students	+				+	
07226	Teachers report use of real- ity therapy, contracts to handle disruptive students	٥	•			+	,
07464	Teachers believe that they can do little about discipline, behavior problems, disruptive, antagonistic students					-	
07173	Teachers deal with students not paying attention by seeking outside help: parents, counselors, office	, . -			Э	,	\$
07475	Teachers cite good, consistent, fair discipline and control as most important attribute of effective junior high teacher					+	~ · · · · · · · · · · · · · · · · · · ·

		•		Relat	ionship	Re	lationship
		` }		w	ith		with
	Variable			Achie	evement		Attitude
۰	Number	Variable Description	Ma	in Int	eraction	Main	Interaction
	Classroo	m Management		1			,
	06059	Teachers believe knowing and				,	
		Jusing behavior modification				,	
	y	techniques is important to					
		good teaching	•	-			
	07093	Class rules include expect					
+4		mutual respect, courtesy		_			Hi - Lo +
		7,7,70,00	_				111 110 1
	07126	Teachers indicate willing-					
		ness to try greater stu-					
		dent involvement oin making					•
!		and enforcing rules	•	-			*
	07159	The section of the se					
	0/1/3	Teachers deal with students			•		
	٠.	who never answer when called on by going on to another					,
•		student	" —	ú;	+ Lo -		,
	• •	o dadelle		ш	ı. 10		ъ
	07161	Teachers deal with students					
		who never answer when called					
		on by having private			•		
		conference to discuss		_			•
		problem		Hi	+ Lo -		
	07162	Teachers deal with students					
	0,102	who never answer when called			-		
		on by eventually ignoring		厂	•		
		them, leaving them alone					
		after other strategies fail	+	•			
		• ,					
	07165	Teachers report that student					
	• *	not answering when called on					
		is not a problem, rarely happens					
						-	
	07168	Teachers deal with students			,		•
		who do not pay attention by					
		calling on them, asking					
	•	them a question				+ '	• ·
	07171	m			·	۵	
	07171	Teachers deal with students					
	o	not paying attention by					
	• .	using nonverbal interven- tion	_				
			- د			-	

Relationship with

Relationship with

Variable Number

Variable Description

Achievement^e Main Interaction Main Interaction

Attitude

Classroom Management[®]

07209 Teachers report that they consistently reward good behavior and good work

Hi + Lo 0

Teaching Strategies

Table 2.6 summarizes findings for teachers' reports of teaching strategies used. Teachers believe ability to engage students in peer teaching is important to good teaching (06047) was associated with low achievement and low student ratings of teachers. Also, agreement that letting faster students help slower ones is a good practice (06083) was negatively related to achievement, but reports of coping with different ability levels in class by reer tutoring, allowing students to work together (07006) indicated an interaction with entering ability, suggesting that peer tutoring may be more positively related to achievement in high-ability math classes than in low-ability math classes.

In general, indications that teachers favored or thought they favored preferential treatment for some students, groups, or classes were associated with low student ratings or low achievement or both, particularly for lowability classes. Self-reports that teachers paid more attention to or asked more questions of some students or some groups (07272, 07275, 07016) or indications that teachers preferred some classes or treated some classes or groups differently than others, generally were related negatively to achievement

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and/or attitude (07440, 07442, 07445, 07111, 07452, 07454, 07455). Only two items appeared to contradict this general trend (07451 and 07017).

Certain criteria that teachers reported using in choosing and emphasizing some teaching objectives over others were significantly related to achievement or student ratings or both. Judgments that some teaching objectives are less important because students have already had the material o. can get it later (07318) were associated with low achievement and attitude. Decisions based on perceived need for remediation (07304) also appeared to be negatively associated with achievement. However, decisions based on criteria related to district curriculum guidelines (07305) or on preference for teaching concepts rather than memory work (07317) were related to high class mean achievement. Reported emphasis on some teaching objectives because they will be useful to students in later life (07302) was associated with high student ratings of teachers for low-ability students only. Variable 07314, Teachers assign less importance to some objectives pecause they are less useful for later life, was related to positive attitudes for both groups.

The preferred curriculum suggested by our data seems to be a "no-frills" program featuring regular textbooks and homework, particularly for lower-ability classes. Teachers' reluctance to rely strongly on the text (06091) was associated with low achievement at all ability levels, and low student ratings of teachers among low-ability classes. Teachers' reported use of the district-adopted math text (07285) was related negatively to student ratings of the teachers among high-ability classes, but positively among low-ability classes. Teachers' reported use of easier materials in addition to the adopted text (07287) was related positively to student attitude in higherability classes, but not in lower-ability classes. Preference for regular textbooks appears to be an important correlate of achievement by low-ability

ability students on the m erial emphasized in the achievement test. Frequent assignment of homework (06015) related positively to student ratings of teachers overall. "Dressing up the lesson" to increase interest (06019) was associated with low achievement, particularly for high-ability classes; and teachers' assumption of student enjoyment of lesson without any special "dressing" (06020) was related to high achievement overall and especially among high-ability classes.

Teachers' self-reports of strategies used compositive students had varying relationships with student attitude and achievement according to the ability levels of classes. Reports of frequent use of public recognition (06061) were related to positive attitudes among high-ability classes, but negative attitudes among low-ability students. Reported use of written comments on students' papers (06066) was associated with high ach ement among high-ability students, but low achievement among low-ability classes. Other variables describing a categies for dealing with nonworkers and nonvolunteers (07190, 07154, 07196) also showed interactions with achievement and entering ability. Only one variable describing motivation strategies had similar results with both low- and high-ability classes: Variable 06103, Teachers agree that giving failing grades does little to promote achievement, was associated with low student ratings of teachers.

Six statistically significant variables described strategies for helping students with special academic needs, especially remediation. Two results appeared to support referral to trained personnel:

07058 Teachers report referring students who need remediation or enrichment to resource teacher or other special help (positive relationship with achievement); and



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07365 Teachers report use of remedial techniques to teach math to non-readers (negative relationship with achievement).

Interpretation of other "remediation" results was complicated by interactions with entering class ability: 07052, 07079, 07080, and 07081.

Table 2.6

Variables Related to Math Achievement and Student Attitude

Variable Number	Variable Description	Relationship with <u>Achievement</u> Main Interaction	Relationship with Attitude Main Interaction
Teaching	Strategies	,	
06047	Teachers believe ability to engage students in peer teaching is important to good teaching		
06083	Teachers agree that letting faster students help slower ones is a good strategy	_	
07006	Teachers cope with different ability levels in class by peer tutoring; allow stu- dents to work together	Hi + Lo -	
072/2	Teachers report targeting questions: more to brighter, more to slower, etc.	. ,	
07275	Teachers report that they direct more questions to brighter students	Hi O Lo -	-
07016	Teachers report that they target attention to special groups		
07440	Teachers account for differences between their two observed sections by differences in ability level: some classes are brighter than others	•	

Varíable	4	Relationship with Achievement	Relationship with Attitude Main Interaction		
Number	Variable Description				
Teaching	Strategies .				
07442	Teachers account for differences between their two observed sections by differences in student motivation, maturity, work habits, cooperation	Hi + Lo -			
0744 <u>5</u>	Teachers account for differences between their two observed sections by differences in teacher-student relationship, teacher affect	-	- · .		
07111	Teachers report that rules and procedures differ among their classes in that class structure is determined by student behavior				
07452 -	Teachers report that they vary methods but not cur- riculum in adjusting strat- gies for different class makeup		Hi + Lo -		
07454	Teachers report that they vary both curriculum and methods in adjusting strategies for different class makeup	` -			
07455 -	Teachers report that they vary structure, discipline, control in adjusting strategies for different class makeup	• •	Hi O Lo-		
07451	Teachers report making unspecified adjustments in teaching strategies for different class makeup		- -		

Variable Number	Variable Description	Relationship with Achievement Main Interaction	Relationship with Attitude Main Interaction
Teaching	Strategies		
07017	Teachers report that they pay more attention to high- ability groups, as opposed to low	+	
07318	Teachers assign less importance to certain objectives because students don't nee it now; already had it; get it later	-	-
07304	Teachers concentrate on certain skills because they are needed most, have been neglected; were far behind	-	,
07305	Teachers concentrate on cer- tain objectives because of district guidelines, stan- dard objectives	+ ·	
07317	Teachers assign less impor- tance to certain objectives because memorizing is not as important as understanding concepts	+	
07302	Teachers concentrate on cer- tain skills because they are important for later life		Hi 0 Lo +
07314	Teachers assign less importance to certain objectives because they are less useful for later life		** +
06091	Teachers agree that too much reliance on the text makes effective teaching harder	•	- Ĥi + Lo -
07285	Teachers use district-adopted math text		Hi - Lo +



		Relationship with	Relationship with		
Variable Number	Variable Description	Achievement Main Interaction	Attitude Main Interaction		
Teaching	Strategies				
07287	Teachers report use of easier material in addition to the adopted text		Hi + Lo -		
06015	Teachers report assigning frequent homework		+		
06019	Teachers try to dress up les- son to make it more inter- esting	- Hi - Lo 0	te .		
06020	Teachers assume that students will enjoy lessons without special "dressing"	+ Hi + Lo 0	·		
06061	Teachers report frequent use of public recognition as a motivation strategy		Hi + Lo -		
06066	Teachers report using written comments on students' papers as motivators	Hi + Lo -			
07190	Teachers deal with students who won't do any work by nagging, threatening, keeping at them, praising them	Hi + Lo 0	•		
07154	Teachers deal with students who never volunteer by calling on them; using pat- terned turns	Hi - Lo +			
07196	Teachers deal with students who won't do any work by failing them, forgetting them, doing nothing		Hř – Lo O		
06103	Teachers agree that giving failing grades does little to promote achivement		-		
07058	Teachers refer students who need remediation or enrichment to resource teacher or other special help	, 14 <u>1</u>			



Table 2.6-Continued

/	Variable		Relationship with Achievement		Relationship with Attitude		
	Number	Variable Description	Main	Interaction	Main 1	nter	action
	Teaching	Strategies		·			
	07365	Teachers report use of remedial techniques to teach math to nonreaders	-				
	07052	Teachers provide supplementary packets, workbooks, kits for students who need remediation or enrichment			Н	i +	Lo -
	07079	When students try to hide the fact that they are lost, teachers leave it up to students to seek help, take initiative		Hi + Lo O			
	07080	When students try to hide the fact that they are lost; teachers get help, information from counselor, principal, parent; check records			н	i 0	Lo -
	07081	Teachers report that students' trying to hide their confusion is not a problem;					
	•	doesn't happen much			Н	i -	Lo +

Teacher Characteristics

Results with respect to teacher characteristics are presented in Table 2.7. Math teachers who reported valuing affective relationships with their students were likely to be rated more positively than teachers who do not. The following teachers' opinions were related to positive student attitudes:

07220 Becoming close to students is a plus for building rapport;





07221 Social relationship with students is more important than academic progress; and

07246 To establish credibility one must show trust, caring.

Teachers who reported that they carefully avoid embarrassing confused students (07075) and teachers who expressed charitable, uncritical attitudes toward unmotivated students (07181, 07178, 07188) were also rated positively by their students. However, teachers who overemphasized affective aspects of the teaching role (06096) were rated negatively by their students.

Some of our results imply that teachers are aware of their teaching effectiveness and of whether or not they are liked by their students. They appear to respond to some questions and interview items accordingly (and sometimes defensively). For example, Teachers think that students' ratings of classes and teachers are valid (07249) was related positively to both achievement and attitude. Teachers believe that groups and individuals in class accomplished desired objectives for the year (07288) was associated with positive ratings of teachers and high achievement among low-ability students. (However, there was no significant relationship with achievement among high-ability classes.) Teachers who agreed that it is natural for students to resist teachers (06079) and that teaching should be evaluated in its own right regardless of what is learned (06093) were both associated with low student ratings. This may suggest that teachers' lack of confidence and control could be detrimental to student attitudes.

A number of significant relationships with respect to teachers' attitudes toward student teachers appeared, but the results are difficult to interpret and do not appear to be useful. (See Variables 07349, 07354, 07355, 07357, 07358, 07359, and 07360.)



Results with respect to teachers' attitudes about busing included several interactions with mean entering-ability of classes. Positive attitudes toward busing were related to high achievement among low-ability classes and low achievement among high-ability classes. However, teachers who saw bused students as angry and resentful were associated with low achievement and low attitude in both low- and high-ability classes. Concern for the neighborhood school concept appeared to be related to positive achievement overall. The significiant variables related to busing were Variables 07321, 07326, 07327, 07331, 07332, 07333, and 07334.

When asked to describe factors in classes and individuals about which teachers can do nothing, teachers' responses referring to racial or cultural backgrounds of students (07467) were positively related to both achievement and student ratings of the teacher. Responses concerning students' emotional or psychological problems (07463) were associated with high student ratings of teachers. The meaning of these relationships is unclear. Responses indicating that teachers can always try (or expression of a "can do" attitude, Variable 07469) were positively related to achievement.

There were significant relationships between what teachers expected of parents and students' achievement and attitudes. Teachers' reported expectation that parents should tutor students (06029) was associated with low achievement gains in math. Teachers who believed that parents were best included in the extracurricular activities (06032) were rated low by students, whereas teachers who said parents' best contribution was establishing a warm, positive home environment (06035) were rated high by students.

Variable 07139, Teachers believe that substitute teachers should be given lesson plans and other aids, was related to high class mean achievement and high student ratings of teachers. Teachers' reported reluctance to help sub-



stitutes carry on with regularly scheduled class assignments (07144) was associated with low achievement. Teachers' attitudes toward substitutes in their classroom may be related to teachers' attitudes concerning the importance of constructive use of class time.

Teachers' unwillingness to work with school counselors (07342) was related to low student ratings of teachers. Two other variables negatively related to student liking of teachers were mention of patience and mention of energy and health as most important attributes of junior high teachers (07471 and 07473). It is not surprising that teachers experiencing difficulties relating to junior high school students would mention patience and energy as necessary to the job.

Teachers' level of postgraduate education was negatively related to achievement in math classes (06108). According to our results, the closer teachers came to achieving a graduate degree, the lower their mean class achievement gains were likely to be. These results cannot be explained by years of teaching experience (or presumably, by age). No significant results with respect to achievement were obtained for three of the experience variables. However, years of teaching experience (06110), years teaching in junior high school (06111), and in math (06112) were negatively related to the student ratings of the teachers, at least in lower ability classes.

A number of variables pertained to teachers' assumptions and beliefs about teaching/learning. Results with respect to these variables contained many contradictions, especially when considered together and in contrast to results obtained for variables describing the practices and strategies teachers reported they use. These contradictory results suggest inconsistencies between teachers' avowed ideals and beliefs about teaching and what



they do in the classroom. The following variables were all related to <u>low</u> student ratings of teachers:

- 06058 Teachers believe ability to equip students to do well on standardized tests as important to good teaching;
- O6051 Teacher's believe ability to give clear instructions as important to good teaching;
- O6082 Teachers agree that unless explanations are short, students lose interest; and
- 06090 Teachers believe that "practice makes perfect" sums up teaching.

 In addition, the following opinions were related to low student ratings of the teacher in low-ability classes but had opposite or no relationship in high-ability classes.
 - O6041 Teachers believe ability to organize classroom as important to good teaching;
 - O6053 Teachers believe ability to motivate students to enjoy schoolwork as important to good teaching;
 - 06076 Teachers agree that without proper training students' mental abilities remain undeveloped;
 - 06081 Teachers agree that students should expect schoolwork to be interesting; and
 - 06097 Teachers agree that teachers should use some of the students' slang.

Three opinions or assumptions about teaching were related negatively to achievement:

06059 Teachers believe knowing and using behavior modification techniques is important to good teaching;

- 06092 Teachers agree teachers should make it a point to be wrong occarsionally then acknowledge it;
- 07374 Teachers feel that student progress could be improved by greater teacher-student concact.

Other variables positively related to achievement in high-ability classes but not in low-ability classes were:

- 06037 Teachers believe ability to explain or show how an important part of teaching;
- 06071 Teachers agree that teachers should teach subjects, not attitudes; and
- 06073 Teachers agree that schooling should primarily train students to handle social adjustment.

There were a number of inconsistencies in the above results. Compare, for example, Variables 06071 and 06073. Also compare Variable 06058 with findings reported for "Evaluation Practices," in Table 2.4 of this chapter. Such contradictions make interpretation of results with respect to teachers' assumptions and beliefs about teaching less useful than findings for other teacher characteristics and teachers' self-reports of teaching practices.

Table 2.7

Variables Related to Math Achievement and Student Attitude

		Relationship with	Relationship with
Variable	,	Achievement	with Attitude
Number	Variable Description	Main Interaction	Main Interaction

Teacher Characteristics

07220 Teachers feel that becoming close to students is a plus for building rapport



		Relationship with	Relationship with
Variable Number	Variable Description	Achievement Main Interaction	Attitude
Teacher (Characteristics		,
07221	Teachers feel that social relationship with students is more important than academic progress		,
07246	Teachers believe that to establish credibility one must show trust, caring, respect for students	+	+
07075	When students try to hide the fact that they are lost teachers report they avoid embarrassing; build trust	, ju	+
07181	Teachers' view of unmotivated students: emotional, personal adjustment problems; physical disability, etc.	Hi O Lo +	
07178	Teachers' view of unmotivated students: poor self-concept, lack of confidence, fear of failure		+
07188	Teachers' view of unmotivated students: teachers are at fault; failure to motivate, improve students' self-image, or work with them	,	
06096	Teachers agree that teacher's personality is the most important qualification		
07249	Teachers think that students' ratings of classes and teachers are valid	+ '	+
07288	Teachers believe that groups, and individuals in class accomplish desired objectives	Hi O Lo.+ .	· ·
	\	~ X U	•

ERIC

eri Name	, , , , , , , , , , , , , , , , , , ,	Relationship with	Relationship with
Variable		Achievement	Attitude
Number			Main Interaction
Teacher	Characteristics		•
06079	Teachers agree it is natural for students to resist teachers		<u>.</u>
06093	Teachers agree that teaching should be evaluated in its own right regardless of what is learned	-	
٠07349	Teachers report they have had	•	
•	a student teacher	,	, , ,
07354	Teachers cite advantage of having a student teacher: good for kids to be exposed to a new person, different		
	techniques	an a	Hi - Lo +
07355	Teachers cite advantage of having a student teacher other than those listed (07350-07354)	•	Hi + Lo -
07357	Teachers cite disadvantage of		•
	having a student teacher: discipline problems develop	+	
07358	Teachers cite disadvantage of having a student teacher: student teachers are time consuming, a lot of work	Hi 0 Lo +	• •
07359 \	Teachers cite disadvantage of having a student teacher: students have problems adjusting to new teacher	-	·
07360	Teachers cite disadvantage of having student teacher: teacher loses contact with students	†	
	31	•_	

•		Relationship 'with	Relationship with
Variable Number	e Varîable Description	Achievement Main Interaction	Attitude Main Interaction
Teacher	Characteristics	;	A THE TACE TO IT
07321	Teachers feel that busing	•	
	achieves desired goals, for minorities	Hi - Lo'+	· · · · · · · · · · · · · · · · · · ·
07326	Teachers cite advantage to busing other than those listed (07322-07325)	. Hi - Lo +	
07327	Teachers cite as disadvantage to busing: time spent on buses makes kids tired,		<i>¥</i> .
,	upset; have to come so far		Hi O Lo -
07331	Teachers cite as disadvantage to busing: destroys neigh-borhood concept; kids don't identify with any school	+	• · · · · · · · · · · · · · · · · · · ·
07332	Teachers see as disadvantage	•	• , ,
•	to busing: bused kids feel		•
-	angry, resentful; hold negative attitudes	-	_
07333	Teachers see as disadvantage to busing: causes dis-	0	
•	ruption, tension, racial conflict	Hi Lo ~	,
07334 ·	Teachers feel one-way busing won't work; unfair, only blacks are bused	Hi + Lo -	
07467	ethnic, cultural background,	•	
	and values of students	+	+
07463	Teachers feel they can do little about émotional problems, adolescent or peer relationships	-	+
07469	Teachers feel that they can always try to something about student problems; "can do" attitude	*1 50′	
	•	TOU	

	द	<u>:</u>					
		* %	Re	lationship	Re	lation	ship
				with '		with	
	Variab1e		A	chievement		Áttitu	de
	Number	Variable Description		Interaction			
					<u> </u>		
-	Toacher	Characteristics			•		
	Teacher .	Ollar acter istics					
	06029	Teachan' balium amanta ana					
	00029	Teachers' believe parents are					
	, ;	best used as tutors at home	-				
	06032	Teachana Saliana annaha ana					,
	000.12	Teachers lieve parents are					
		best us: extracurricu-					
		lar activicies		•	-		
				•			
•	06035	Teachers believe parents are	_				•
		best stilized to provide	• •				
		warm positive home environ-		•			
	•	ments			+		
	٠,	•					
	07139	Teachers provide lesson plans				•	
		and regularly scheduled					
^	ь	assignment for substitute	•				, •
		teachers '	+		+	,	
		•		•			
	07144	Teachers mention limitations					
		of substitutes; won't let					•
		them do some things	_				•
	٠			`			
	07342	Teachers report they work with					
		school counselor as little		~			
		as possible or not at all			-		
		as possible of not at all					
	Ó7471	Teachers cite patience as most	•				
	0/4/1	important attribute of	,				
		-					
•		effective junior high		-			
,		teacher			-		•
1	07/70	m			-		
1	07473	Teachers cite energy, health				•	
		as most important attri-					
		butes of effective junior					
	•	high teacher		•	_		
	04100	.					
	.06108	Teachers' level of postgrad-					
		uate education					
			•	•			_
	06110	Total years experience teaching				Hi O	Lo -

Variable Number	e Variable Description	Relationship with Achievement	Relationship with Attitude
	Characteristics	Main interaction	Main Interaction
06111	Total years experience teaching at junior high school level		Hi O Lo -
06112	Total years teaching present subject matter	٠	Hi 0 Lo -
06058	Teachers believe ability to equip students to do well on standardized tests is important to good teaching		,
06051	Teachers believe ability to give clear instructions is important to good teaching	.*	
06082	Teachers agree that unless , explanations are short, students lose intertest		-
C 5090	Teachers believe that "practice makes perfect" sums up teaching		· -
06041	Teachers believe ability to organize classroom is important to good teaching		Hi + Lo -
06053	Teachers believe ability to motivate students to enjoy schoolwork is important to good teaching		Hi + Lo -
06076	Teachers agree that without proper training students' mental abilities remain undersloped		- Hi + Lo -
06081	Teachers agree that students should expect schoolwork to be interesting		"Hi + Lo -
06097	Teachers agree that teachers should use some of the students' slang		Hi 0 Lo-







Variable Number Variable Description	Relationship Relationship with with Achievement Attitude Main Interaction
Teacher Characteristics	
O5059 Teachers believe knowing and using behavior modification techniques is important to good teaching	-
06092 Teachers agree teachers should make it a point to be wrong occasionally then acknowl- edge it	_
07374 Teachers feel that student progress could be improved by greater teacher-student contact	.
06037 Teachers believe ability to explain or show how an important part of good teaching	Hi + Lo O
06071 Teachers agree that teachers should teach subjects, not attitudes	. Hi + Lo 0
06073 Teachers agree that schooling should primarily train students to handle social adjustment	Hi + Lo O

Uninterpretable Findings for Math Classes

The following variables, while significantly related to either achievement or attitude, will not be interpreted. The majority of these variables involve relationships with infrequent and uncategorizable responses from teachers. Also some were ambiguous, leaving questions about what the teachers actually meant. Information about these variables may be found in Tables 2.1 and 2.2 and in Volumes II and III of this report: 06113, 06114, 07014, 07022,

07050, 07127, 07136, 07158, 07187, 07206, 07248, 07263, 07274, 07306, 07320, 07338, 07340, 07373, and 07470.

Summary

In general, there was a high correspondence between findings for achievement and student attitude in math classes. Teachers whose classes showed high gains in math achievement were well-liked by their students. Results for both measures indicated that successful math teachers were likely to state preference for whole-class organization, a textbook-centered curriculum, and direct teacher-centered teaching style.

Effective and well-liked math teachers saw the melves as objective, self-reliant, and methodical evaluators and diagnosticians. They said they rely on diagnostic tests, standardized test scores, and correctly done seatwork to assess student progress. With regard to classroom management, they said they prefer clearly structured classroom environments; they reported that they hold students accountable for their work; and they expressed confidence and self-reliance as behavioral managers. Their expressed expectations of parental roles were limited and realistic: They saw parents as providers of warm, positive home environments, not as tutors or diagnosticians.



CHAPTER 3

RELATIONSHIPS OF TEACHER SELF-REPORTS WITH ENGLISH ACHIEVEMENT AND STUDENT ATTITUDE

The 39 English teachers in the Texas Junior High School Study responded to the same questionnaire and interview as the math teachers. Variables resulting from their responses are listed in Tables 3.1 and 3.2 (beginning on page 135) showing mean scores, standard deviations, and range of scores for each variable.

Multiple-regression analyses were used to test the extent to which each of the variables was associated with class mean achievement and class mean student rating of the teacher. These analyses resulted in 73 variables significantly ($\underline{p} \leq .05$) related to achievement in English classes and 111 variables significantly related to student liking of the teacher. The number of significant results again exceeded that which would be expected from chance.

Interactions with Ability of Classes

Interpretation of the English data was complicated by the presence of a large number of interaction effects, particularly with respect to achievement. Of the 73 variables significantly related to achievement, 41 or 56% were differentially related with respect to mean entering ability of classes (mean CAT scores). That is, the nature of the relationships between achievement and the particular self-report item depended upon the entering ability level of the class. Teacher characteristics or teaching practices which appeared to "work" with high-ability classes did not necessarily work with low-ability classes. A total of 25 or 23% of the variables which were related to the affective measure (Student Ratings of Teachers) were differentially related according to ability levels of classes. A generalization emerging from these data is that



in English classes, low-ability groups of students may require (or inspire, respond to, or be circumstantially associated with) very different teacher characteristics or teaching strategies than do high-ability classes. The nature of these differences will be described in succeeding paragraphs.

Comparison of Cognitive and Affective English Results

Unlike the math results reported in chapter 2, there was little correspondence between variables related to cognitive and affective measures for English. Only 19 variables were significantly ($\underline{p} \leq .05$) related to both English achievement and student ratings of the teacher. Of these, 13 indicated contrasting relationships, and six indicated similar relationships with the two product measures. Teacher characteristics or self-reported practices associated with high achievement usually were unrelated to and occasionally were negatively related to student liking of the teacher. Some of the variables resulting in clearly contrasting relationships with achievement and student attitude were:

06052 Teachers' attitude toward remedial work;

07152 Teachers' attitude toward call outs;

07399 Peer tutoring;

' 07433 Role playing; and

07481 Teachers' rating of good teaching skills as important.

(All of the above were negatively related to achievement, but positively related to student ratings of the teacher.) And

07104 Student should assume responsibility for makeup work

(positively related to achievement, but negatively related to student rating of the teacher). In addition, Variable 07340, Teachers' contacts with other faculty limited by community/team structure of faculty, showed contrasting relationships with the two product measures and opposite patterns with respect



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Table 3.1
Summary Statistics for Teacher Questionnaire:

English	Teachers
---------	----------

PER CENT OF STUDEN	TS EXPECTE	ED TU MASTER C	URRICULUM	
ID = 90001	ME A N 74%	SIGMA - 21%	RANGE 10 - 99%	N 38 ,
PER CENT OF GRADES	BASEU ON	OBJECTIVE EVI	DENCE	
ID = 90005	ME AN 84%	SIGMA 19%	RANGE 1099%	N 36
PER CENT UF GRADES	BASED ON	SUBJECTIVE IN	PRESSIONS	
ĮD = 46003	MEAN . 42%	SIGMA 20%	RANGE 10 - 99%	N 36
PER CENT DISCIPL. P	PROB. DUE	TO LACK OF IN	TEREST IN SUBJ.	MATTER
ID = 06884	ME AN . 58%	SIGMA 21%	RANGE 10 - 99%	1 ¹ 38
PER CENT DISCIPL. F	PROB. DUE	TO LAXITY IN 1	ENFORCING RULES	•
10 = 30005	MEAN 37%	S1GMA 20%	HANGE 10 - 99%	N .
PER CENT DISCIPL. P	Pkum, DUÈ	TO OTHER (FAC	TURS INTRINSIC	ĹN
In = uponu	ME AN 47%	\$1GmA 22%	HANGE 10 - 99%	N 38
PER CENT TIME IMAT	SHOULU BE	. SPENT IN LEC'	TURES, DEMUNSTR	A TIONS
10 = 10007	™E.A:4 39%	SIGMA 2 15%	RANGE 10 - 70%	, N . 58



Table 3.1-Continued

PER CENT TIME THA	T 5HUULD 8	SE SPENT IN	QUESTIONS, DISCO	ISSIONS
ID = 96008			RANGE 10 - 70%	, N 38
PER CENT TIME THAT	г зношцо в	E SPENT IN	. SEATWORK	
ID = 06009		51GmA 13%	RANGE 10 - 70%	N 38
PER CENT DESIRED R	RIGHT ANSW	ERS IN CLAS	SS DISCUSSIONS	
ID = 00010	ME A IN 84%	SIGMA 18%	. RANGE 30 - 99%	N 36
PER CENT DESIRED H	IGHT ANSH	ERS IN SEAT	WORK AND HOMEWOR	ĸ
ID = 06011		SIGMA 16%	RANGE 30 - 99%	N 37
PER CENT TEACHING	DEVOTED T	O INDIVIDUA	LS	
ID = 96015	MEAN 50%	SIGMA 14%	RANGE . 10 - 70%	N 37
PER CENT TEACHING	DEVOIED .[D SURGROUPS	• .	
ID = 30013	MEAN 34%	SI 6/1A -12%	RANGE 10 - 50%	N 36
PER CENT TEACHING	DEVOTED TO	J WHOLE CLA	 \$\$ '	
10 = 00014	MEAN 67%	516ma 19%	KANGE 10 - 99%	N 37
HOW OFTEN IS HUME.	URN ASSIGN	·FD		
10, = Non15	1.28	\$16:1A •99	RANGE U. Dr = 3. un	N 39



GRADES AS VALUABL	. STUDENT	INFORMATION
-------------------	-----------	-------------

ON HOUSE AND				
	MEAN	SIGMA	RANGE	N
10 = 36016	• 26	. 44	ଜ•ରନ ≃ 1•ନ୍ଦ	39
				•
ACHIEVEMENT TES	T SCURES AS	VALUABLE S	TUDENT INFURMATIO	N
	MEAN	SIGMA	RANGE	N [']
10 = 20017	.21	. 40	0.00 - 1.00	39
				7
OTHER, MURE SUB-	JECTIVE, EV	ALUATIUNS A	S VALUABLE STUDEN	Ţ
	MEAN	SIGMA	RANGE	N
ÎD-#2 06018	• 79	. 40	0.70 = 1.40	39
DRESS UP A LESS	ON TO MAKE	IT MORE INT	ERESTING	
	MEAN	SIGMA	RANGE	N
ID = 06019	. 95	•55	0.40 - 1.00	39
		٠ ,		
ASSUME CLASS EN	JOYS LESSUN	W/O BUILDI	NG UP INTEREST. E	NTHUSIASM
	MEAN	SIGMA	RANGE	Ŋ
ID = 36050	. 63	.16	0.00 = 1.00°	39
STUDENTS APPEAR	TU-UNDERST	AND MATERIA	L	
	MEAN	SIĞHA	RANGE	N
ID = 26021	.92	.27	0.60 • 1.60	39
FEWER QUESTIONS	FRUM CLASS			
, when deposite	-		•	
ID = 96055	MEAN •10	SIGMA .30	RANGE 0.00 - 1.00	N 39
to - poper,	• • •	• 30	•	→ 7
			ø	
STUDENTS GET RE	GHT DUWN TO	WORK		
	MEAN	SIGMA	RANGE	N
10 = 00n23	•64	. 48	u.ги + 1.00	39



1				
10 = 06024	MEAN 85	SIGMA 36	RANGE 0.80 - 1.00	N 39
SEATHORK ASSIGNA	MENTS ARE D	ONE CURRECT	LY	
10 = 86825	MEAN .72 -	SIGMA .45	RANGE 0.00 - 1.00	N 39
CLASS IS WELL DE	HAVED			
10 = 99859	MEAN •46	SIGMA .50	RANGE	N 39
STUDENTS SEEM 10	ENJUY SCHI	OCL		\$
ID = 06027	MEAN •67	SIGNA .47	RANGE 2.00 ≈ 1.00	N 39
STUDENTS WURK UN	ThEIR OWN			
10 = 9905g	MEAN •64	SIGMA .48	RANGE 0.00 - 1.00	N 59
PARENTS TUTOR CH	ILDREN W/ F	PHOBLEMS AT	HOME	
ID = 06029	MEAN •41	SIGMA .49	RANGE ⊍.00 - 1.00	N 39
PARENTS PARTICIP	ATE IN PIA;	ITS PROJEC	;ts	
10 = 26030	MEAN • 38	51GMA .49	HANGE	N 39
PARENTS HELP IN F	IELD THIPS			
ID = 26831	MEAN .54	SIGMA •5d '	RANGE B. B. B	N 39



Table 3.1-Continued

PARENTS HELP W/ PER	P SQUAD,	DRILL TEAM,	SPORTS, OTHER SC	HUOL
10 = 36635	MEAN .33	SIGMA .47	RANGE 0.00 = 1.00	N 39
10 - 00000	(33	• • •		
PARENTS COUPERATE	W/ SCHUUI	. HY DISCIPL	INING CHILD AT HO	IME
ID = 06033	MEAN .85	SIGMA .36	RANGE 4.00 = 1.00	N 39
10 = 90023	•03	• 20	5 000 a 1 50	37
PARENTS MAKE SURE TURNED IN	HUMEWUKK	DUNE, SUPPL	IES BOUGHT, PROJE	CTS
	MEAN	SIGMA	RANGE	N
10 = 06034	.85	. 36	e.eu - 1.uu	39
PARENTS PRUVIDE HA	RM, PUSI	TIVE HUME EN	IVIRONMENT	
	MEAH	SIGMA	RANGE	N
ID = 00035	.90	. 30	0.nn - 1.nn	39
,				
PARENTS PROVIDE EN	RIGHING (MATERIALS. 6	BOOKS. GAMES. RECU	วหบร.
PUZZLES			<u> </u>	
10 = 26036	MEAN .67	SIGMA .47	RANGE 0.00 = 1.00	N 39
,	,••	• • •	,	
EXPLAIN, INFORM, S	HOM HOM		~ *	
	MEAN	SIGMA	RANGE	N
ID = 06037	3.72	• 45	3.00 = 4.03	39
INITIATE, DIRECT,	ADMINIST	ER		
	MEAN	SIGMA	RANGE	Ņ 39
10 = 06038	3.23	. 13	1.80 = 4.80	39
DIAGNOSE LEARNING	PHOBLEMS			
**	MEAN	SIGMA	RANGE	N
10 = 06039	3.10	.78	1.00 - 4.00	39



MAKE CURRICULUM MATERIALS

	MEAN	SIGMA	RANGE	N
<u> 10 = 36040 </u>	2+62	.88	1.00 - 4.60	39
ORGANIZE AND ARRA	NGE THE CLA	SSROOM		
ID = 36041	MEAN 2.87	SIGMA	RANGE	Ŋ
,	× ×	,•82	1.00 - 4.00	39
LET STUDENTS GET SUBJECTS	INVULVED W/	UGLY, DI	STRESSING ASPECTS	UF
ID = 06042	MEAN 1.27 · -	SIGMA	RANGE	N -
10 4, 00042	1.27	1.18	0.20 - 4.00	37
		,		э -
PROVIDE SAME MATE	RIALS FURE	ACH STUDE	NT IN THE CLASSRO	Эм
96 m 64.74.12	MEAN	SIGMA	RANGE	N
ID = 36043	1,16	1.16	0.60 = 4.00	38
		.,	0 8 8 0 - 4 8 0 p	30
REGUIRE UNDIVIDED	,	-	THOSE NOT RESPON	
,	ATTENTIUN, MEAN	AUHONISH SIGMA	THOSE NOT RESPOND	N DIŅG
REGUIRE UNDIVIDED	ATTENTIUN, MEAN	ADHOŃISH	THOSE NOT RESPOND RANGE 0.00 = 4.00	DIŅG
,	ATTENTIUN, MEAN	AUMONISH Sigma	THOSE NOT RESPOND	N DIŅG
,	MEAN 2.03	AUMONISH Sigma 1.27	THOSE NOT RESPOND RANGE 0.00 - 4.00	N DIŅG
ID = 36044 ENCOURAGE STUDENT	ATTENTIUN, MEAN 2.03 S TU TACKLE MEAN	AUMONISH Sigma 1.27	THOSE NOT RESPOND RANGE 0.00 - 4.00	N DIŅG
ID = 36044	ATTENTIUN, MEAN 2.03	ADMONISH SIGMA 1,27	THOSE NOT RESPOND RANGE 0.00 = 4.00 T PROBLEMS	DIŅG N 39
ID = 36044 ENCOURAGE STUDENT	ATTENTIUN, MEAN 2.03 STU TACKLE MEAN 2.34	AUMONISH SIGMA 1.27 DIFFICUL SIGMA .93	THOSE NOT RESPOND RANGE 0.00 - 4.00 T PROBLEMS RANGE	DIŅG N 39
ID = 36044 ENCOURAGE STUDENT ID = 06045	ATTENTIUN, MEAN 2.03 STU TACKLE MEAN 2.34	AUMONISH SIGMA 1.27 DIFFICUL SIGMA .93	THOSE NOT RESPOND RANGE 0.00 - 4.00 T PROBLEMS RANGE 0.00 - 4.00	DIŅG N 39

ENGAGE STUDENTS IN PEER TUTORING

MEAN SIGNA RANGE N 10 = 00041 2.20 .62 1.20 = 4.00 38

Table 3.1-Continued

		MEAN	SIGMA	RANGE	N
	10 = 36048	2.82	,88	1.60 - 4.00	38
	SENSE OF HUMUR		•		
	ID = 96849	ME AN 3.56	SIGMA •63	RANGE 2.80) = 4.00	N 39
	ABILITY TO CONT	RUL THE CLAS	SS		
٠,	10 = 90K29	MEAN 3.72	SIGMA .45	RANGE 3.00 - 4.00	N 39
	ABILITY TO GIVE	CLEAR INSTR	RUCTIONAL P	RESENTATIONS	
	10 = 20051	10 A A A A A A A A A A A A A A A A A A A	SIGMA ,49	RANGE 3.00 - 4.00	N 39
	ABILITY TO DO H	EMEDIAL WORK	(WITH SLOW	LEARNERS	
ò	ID = 06v52	MEAN 3.28	SIGMA	RANGE 2.00 = 4.00	N 39
	ABILITY TO MOTI	VATE STUDENT	'S TO ENJOY	CLASS WORK	
•	10 = 20053	MEAN 3.21	SIGNA .72	RANGE 2.00 = 4.00	N 39
	ENTHUSIASM	٥		• ; •	
	ID = 06054	, MEAN 3.54	SIGMA .55	RANGE 2.400	N 59
	WARMIH				
		MEAN	SIGMA	RANGE	N.

FREUUENT PHAISE

ID = 00056	MEAN 3.31	SIGMA .61	RANGE 2.00 = 4.00	N Zo
	· ·		2000 - 4000	39
ABILITY TO GET S	TUDENT RES	SPECT		
**************************************	MEAN	SIGMA	RANGE	N
ID = 06057	3.40	•55 _e	2.60 - 4.90	39
SEE THAT STUDENTS	S DO WELL	UN MAT, STA	NEGRO, OTHER ACH.	TESTS
	MEAN.	SIGMA	RANGE	N
ID = 06058	1.36	1.00	0.69 - 3.98	39
KNUMLEDGE AND USE	UF BEHAV	IOR MOD TEC	HNIQUES .	
	MEAN	SIGMA		* •
ID = 36659	2.38	•74	1.00 - 4.00	N 39 >
PRAISE *				
	MEAN	SIGMA	RANGE	N
ID = 90000	3.47	• 64	2.604.00	38
PUBLIC RECOGNITION	N	,		
	MEAN	SIGMA	RANGE	
ID = 06061	2.85	,83	1.00 - 4.00	N 39
ind.	•			•
EXEMPJION FRUATES	8 T S			.,
ID = 80805 ,	MEAN '	SIGMA	HANGE	Ŋ
, , , , , , , , , , , , , , , , , , , ,	1.28	.88	0.00 - 3.00	39
SPECIAL PRIVELEGES			***	<i>'</i> .
ID = 06063	MEAN 1.95	SIGMA . 89	RANGE	Ŋ
,	• • • • •	. • 07	v. €0 - 4.30	38



CONTESIS, COMPETITIVE GAMES

CONTESTS! COMPET		•		
ID = 96964	2.20	SIGMA .84	RANGE ⊌.vv = 4.v0	N 39
NCYES TO PARENTS	;			
IO = 96802	MEAN 2.64	SIGMA .95	RANGE 1.00 = 4.00	N 39
WRITTEN CUMMENTS	ON PAPER		·····	
ID = 90000	MEAN 3.30	\$IGMA .66	RANGE 2.00 - 4.00	N . 39
OTHER METHUDS IC) HOTIVATE	,		
10 = 36067			RANGE 1.00 - 4.00	12 N
AVOID WORK GAMES	3 OR STUDEN	T COMPETITI	ON IN FRONT OF WHO	DLE CLASS
10 = 36068		SIGMA .69	RANGE 8.00	N 39
KNDMLEDGE UF FAC UNDERSTOOD	TS MUST CO	ME BEFORE G	ENEHALIZATIONS ARE	E MADE,
10 = 96069	MEAN 2.55	SIGMA .87	RANGE 1.00 - 4.00	N ' 39
GOOD TEACHER ADM	11 FS IGNORA	NCE UPENLY,	FREQUENTLY	
10 = 06070	MEAN 2.92	SIGMA ,96	RANGE 1.60 + 4.00	N 38
TEACHERS SHOULD	TEACH SUBJ	 ECTS RATHER	THAN ATTITUDES	
10 = 06071		SIGMA .94	RANGE ผ _{•ย} ย	N 39



STUDENTS CAN LEARN MATH AS WELL AS ANY OTHER SUBJECT

DEJECTIVE OF SCHOOL HANDLE SUCIAL ADJUSTMENTS IS PRIMARY

STATE-WIDE TESTS. TO PREPARING STUD. TO DO WELL ON CITY OR

LEARNING IS DIFFICULT, TEACHER AND STUDENTS FIND IT TIRING

ID = 20075 HEAN SIGMA RANGE N 1.41 1.08 0.00 - 4.00 39

STUDENT MENTAL ABILITIES STAY UNDEVELOPED W/O PROPER TRAINING

ID = 26076

MEAN SIGMA RANGE N
2.76 1,01 1.00 - 4.00 38

SOME STUDENTS ASK TOU MANY QUESTIONS

MEAN SIGMA RANGE N 10 = 06077 1.62 1.12 0.00 = 4.00 39

STUD. LEARN FRUM PEER INTERACTION -- SU T. SHOULD HAVE SMALL GROUP DISCUSSIONS

ID = 20078 NEAN SIGMA RANGE N 2.62 67 1.00 = 4.00 39

IT IS NATURAL, HEALTHY FUR STUDENT TO RESIST HIS TEACHER

ID = 46079 MEAN SIGHA RANGE N 1.57 .86 W.FU = 3.00 37

	C	T A 1 4	7 /	C71.12 ~ 11 ~ 7	4.0	T ()	A P I. T A
TEALUEDE	SMILLIA	IAIR	111	5 1 1 H 1 5 N 1 5	Δ >	1 1 1	A11111 C
IEALHERO	ULIVULU			STUDENTS	~ ~		7001.13

	MFAIL	STGMA	RANGE	N
ID = 36888	1.82	1.11	RANGE 0.00 - 4.00	39
STUDENTS SHOULD	EXPECT SCH	OULWORK TO	BE INTERESTING	
	MFAN	STGMA .	RANGE	N
10 = 26621	2.21	.92	1.00 - 3.00	
UNLESS EXPLANALI	UNS ARE SH	OKT,STUD. L	OSE INTEREST AND	ABILITY
TO FOLLOW		-		
tD = 36082	MEAN 2.54	SIGMA . N.7	RANGE 1.00 - 4.00	N 39
10 - 50501	L J	,	1100	-,
OCCUPTED	•	•	OOD WAY TO KEEP BO	
	MEAN	SIGMA	RANGE 0.00 - 4.00	N
10 = 30083	2,34	1.08	0.00 = 4.00	38
TEACHER SHUULD G	SIVE GREAT		SUARD PRACTICE IN	HATH .
	MEAN	SIGMA	RANGE	N
1D = 36884	81.5	,57	1.00 - 4.00	34
T. NEED SPEND LI	TTLE TIME	w/ BRIGHTS,	AS THEY CAN LEAR	N BY
THEMSELVES				
*n = 4609E	MEAN 1.08	SIGMA .76	RANGE 0.00 - 3.00	N 39
ID = 06085	1.000	, 10	E- ND - 3-00	. 7
THE HANDER THE 1	TASK, THE B	ETTER FOR T	THE STUDENT	
	MEAN	SIGMA	RANGE	N
ID = 36006	1.05	.76	0.00 - 3.00	38

DIFFERING WORK BY ABILITY IS NOT A WORKABLE IDEA

 MEAN
 SIGMA
 RANGE
 N

 ID = 26007
 1.00
 .06
 0.00 = 3.00
 38



Table 3.1-Continued

TEACHER SHU	ULD DISCOURAGE	MOVING	FREELY	AROUND	ROOM
-------------	----------------	--------	--------	--------	------

MEAN SIGMA RANGE ID = 36888 1.67 1.03 0.80 - 4.00 38

EXPECT STUDENTS TO FURGET MUCH THAT IS TOLD TO THEM

MEAN SIGMA RANGE ID = 36889 1.95 .97 0.60 = 3.09 38

THE SAYING PRACTICE MAKES PERFECT IS A GOOD SUMMARY OF LEARNING

MEAN SIGMA RANGE 10 = 00090 2.08 1.09 0.00 - 4.20°

TEACHER WHO RELIES ON TEXTS HAS HARD TIME TEACHING EFFECTIVELY

MEAN SIGMA KANGE ID = 06091 2.65 1.01 0.00 - 4.00

TEACHERS SHOULD SOMETIMES ON PURPOSE BE WRONG, THEN ACKNUMLEDGE

MEAN SIGMA RANGE ID = 36492 1.46 1,03 Ø.66 **→** 4.66

TEACHING SHOULD BE EVALUATED INDEPENDENT OF HOW MUCH LEARNING RESULTS

MEAN SIGMA RANGE ID = 26693 1.45 1.14 0.68 - 4.80

A GOUD TEACHER MUST BE A DETERMINED PERSON

MEAN SIGMA RANGE 10 = 26094 3.18 .64 1.00 - 4.00

IMPACT OF T. IS MORE IMPORT. THAN ALL OTHER ASPECTS OF SCHOOL ENVIRONMENT

MEAN SIGMA 1.09 RANGE ID = 06095 2.61 U.I.N - 4.88 38 TEACHER PERSONALITY IS MUST IMPORTANT PEDAGUGICAL QUALIFICATION

MEAN SIGMA 38 1.40 - 4.00 TD = 26696 2.47 .88

TEACHER SHUULD USE SOME OF STUDENTS SLANG OR LINGO

SIGMA RANGE MEAN .99 U. U. . 4. UU 39 1.95 ID = 36697

T. SHOULD REWARD EFFURT, PENALIZE LACK OF IT, REGARDLESS OF ACHIEVEMENT

RANGE MEAN SIGMA 6.80 - 4.00 1.89 1.05 1D = 86098

HIGH STANDARUS, INSISTENT PRESSURE, IS BEST WAY TO GET CHILD

TO LEARN

RANGE MEAN SIGMA · 0.00 - 4.00 37 ID = 06699 .9W 1.68

AT RISK OF BURING SUME, TEACHER SHOULD EXPLAIN THURUUGHLY

SIGMA RANGE MEAN 1.60 - 4.00 ID = 06100 2.77 .83

GIVING INSIGHT INTO NUMBER SYS WILL NOT REDUCE AMT OF MATH

DRILL NECESSARY

MEAN SIGMA RANGE ID = Volul 2.38 .65 1.90 - 4.00

CALLING ATTENTION TO ACH OF OTHERS DUES NOT STIMULATE ACHIEVEMENT

MEAN SIGMA RANGE 0.40 - 4.99 38 ID = 06105 1.42 .91

FAILING GRADES DO LITTLE TO PROMUTE ACHIEVEMENT

RANGE SIGMA MEAN 37 10 = 16103 1.66 . 99 n.un = 4.3€



Table 3.1-Continued

IT IS BETTER TO UNDER EXPLAIN THAN OVER EXPLAIN

ID = 06104 MEAN SIGMA RANGE N 10-00 - 3.00 39

HIGH GRADES REINFURCE EFFORT, STUDENTS WORK HARD, CUNTINUE TO

ID = 86185 MEAN SIGMA RANGE N
2.59 .74 8.88 4.88 39

STRICTER RULES WOULD HELP ELIMINATE DISCIPLINE PROBLEMS

ID = 06106 MEAN SIGMA RANGÉ N 2.08 .93 1.00 = 4.00 38

IG TESTS MERELY LABEL, DU NOT PRUVIDE USEFUL INFORMATION

AMOUNT OF POST GRADUATE AORK

IF GRADUATE DEGREE, WHERE FROM

ID = 36109 MEAN SIGMA RANGE N .67 .47 0.00 + 1.00 6

TOTAL YEARS TEACHING EXPERIENCE

ID = 06110 MEAN SIGHA RANGE N .95 1.20 0.60 = 4.00 59

YEARS TEACHING JUNIOR HIGH LEVEL

 YEARS TEACHING PRESENT SUBJECT MATTER AT JUNIOR HIGH LEVEL

TEARS TEACHING	PRESENT SUBJE	CI MATTER	R AT JUNIUR HIGH	LEVEL
ID = %6112	MEAN •59	SIGMA 1.06	RANGE 0.00 - 4.00	N 39
BELONG TO ISTA				
10 = 06115	MEAN -82	SIGMA .38	RANGE 0.00 - 1.00	N 39
BELUNG TO NEA				
ID = 86114	MEAN •72	SIGMA .45	RANGE V. Nr = 1. UV	N 39
BELUNT TU AFT				
10 = 00115	HEAN •13	SIGMA .33	RANGE 0.00 ≈ 1.00	N 54
BELUNG TO UTHER	PROFESSIONAL	URGANIZA	TION	•
ID = 06116		SIGMA .50	RANGE 0.60 = 1.00	N 39
		1		

171



Table 3.2

Summary Statistics for Teacher Interview:

English Teachers

SEVERAL ABILITY	LEVELS IN	ONE CLASSRU	OM PRESENIS A PRO	BLEM
ID = 07001	MEAN 1.82	SIGMA	RANGE 1.00 - 2.00	N 39
	0	• 30	1.860 - 5.80	39
COPE WITH ABILIT	Y LEVELS B	Y ABILITY G	ROUPING .	
	MEAN	SIGMA	RANGE	Ŋ
ID = 07002	1.41	• 49	1.69 - 2.69	
BY INDIVIDUALIZE CONTRACT WORK	U MURK, SEL	F-PACED;LE	ARNING CENTERS; IG	E;
	MEAN	SIGMA	RANGE	N
ID = 07643	1.38	. 48	RANGE 1.00 = 2.00	37
BY DIFFERENT LEVE INSTRUCT. GAMES			SUPPLEMENT, MATE	:K.;
		SIGMA	RANGE	N
ID = 07004	1.57	.5⊍	uu - 2.uu	37
BY MORE SPECIAL	ATTENTION;	CONFERENCES	S; +ORK AFTER SHC	OUL
	MEAN	SIGMA	RANGE	N
ID = 27005	1.22	• 41	1.00 - 2.00	
BY PEEK TUTORING	ALLOW STU	DENTS TO WO	ORK TUGETHER	
	MEAN	SIGMA	RANGE	N
ID = 37006	1.05	•23	1.00 = 2.00	37
BY DIFFERENTIAL TEXTRA CREDIT WORK	ESTING, GR	ADING; EXPE	ICT LESS FROM SLOW	S;
THE THE TENT	MEAN	SIGMA	RANGE	N
ID = 87087	1.27	.44	1.00 - 2.00	37



BY WHOLE CLASS APPROACH; TEACH TO HIGH, MIDDLE; NEGLECT SOME; IGNORE PROB.

10 = 37008 MEAN SIGMA RANGE N 1.27 .44 1.60 = 2.00 37

. OTHER: RESOURCE TEACHER, STUDENT TEACHER, TEACHER AIDE

a

10 = 27009 MEAN SIGMA RANGE N 1.11 .31 1.00 = 2.00 37

TEACH. CUPES A/ABILITY LEVELS HERSEL! IN CLASS RATHER THAN

ID = 27010 MEAN SIGMA RANGE N 2.73 .50 1.00 = 3.00 37

METHUDS FOR COPING WITH ABILITY LEVELS IN CLASS WERE SUCCESSFUL

10 = 87611 SIGMA RANGE N 3.22 .87 1.66 + 4.86 37

GROUP STUD. IN CLASS ON BASIS OF ABILITY, BASED ON DIAGNUSTIC TESTS, CAT

10' = 27612 MEAN SIGMA RANGE N 1.46 .50 1.00 - 2.00 28

OF ABILITY, BASED ON OBSERVATION, ASSESSMENT OF WORK; TALK WITH STUDENT

OF ABILITY (NO OTHER RESPONSE GIVEN)

OF RANDUM UR BALANCED GRUUPS FOR SOME ACTIVITIES OR WORKING TOGETHER

10 = 07015 MEAN SIGMA RANGE V 1.25 .43 1.60 = 2.00 28 SOME GROUPS GET MURE ATTENTION THAN OTHERS

MEAN SIGMA RANGE ID = 07016 1.71 . 45 1.00 - 2.00 38

MORE ATTENTION GIVEN TO HIGH ABILITY GROUPS, AS UPPOSED TO LUW

MEAN SIGHA RANGE ID = 37017 1.45 .67 20 1.00 = 3.00

TEACHER INDIVIDUALIZES UN REGULAR BASIS

MEAN SIGMA RANGE ID = 07918 2,23 .89 1.00 - 3.00 39

TEACHER INDIVIOUALIZES BY: SELF-PACED WORK, CONTRACTS, LEARNING

STATIONS

MEAN SIGMA RANGE 10 = 370191.61 . 49 1.50 - 2.00 28

BY DIFFERING EXPECTANCIES, TESTS, GRADING: LESS WORK TO SLOWS:

SPEC. ASSIG

SIGMA RANGE MEAN 1D = 37020 1.46 .50 1.00 - 2.00 85

BY ABILITY GROUPS HAVING DIFFERENT ASSIGNMENTS

MEAN SIGMA RANGE 10 = 27021 1.14 . 35 28 1.00 - 2.00

OTHER: EXTRA HELP; CUNFERENCES; USE RESOURCE TEACHER, AIDE

MEAN SIGMA RANGE ID = 87422 85 1.25 . 43 1.00 = 2.00

TEACHER USES GROUPS AND ALSO INDIVIDUALIZES

MEAN SIGMA RANGE 10 = N7N23 1.51 .50 1.00 - 2.00 39

TEACHER INDIVIDUALIZES UNLY (DUES NOT GROUP)

ID = 37024 MEAN SIGMA RANGE N 1.18 .38 1.00 = 2.00 39

TEACHER GROUPS ONLY (DUES NOT INDIVIDUALIZE)

ID = 47025 MEAN SIGMA RANGE N 1.21 .40 1.00 = 2.00 39

TEACHER NEITHER GROUPS NUR INDIVIDUALIZES

ID = 07026 . MEAN SIGMA RANGE N 1.10 .30 1.00 = 2.00 39

FREUDENCY OF TESTS (EXCLUDING SPELLING TESTS)

USES BUTH TEACHER - MADE AND PREPARED TESTS, AS UPPOSED TO

ID = 07028 . MEAN SIGMA RANGE N 1.31 .46 1.00 = 2.00 3

ADVANT. UF SELF-MADE TEST: TESTS WHAT IS TAUGHT; KIDS FAMILIAR

MEAN SIGMA RANGE N 1.94. 30 1.00 - 2.00 39

CAN GIVE DIFFERENT TESTS TO ABILITY GROUPS: MORE INDIVIDUALIZATION

ID = 27030 NEAN SIGMA RANGE N 1.15 .36 ,1.00 = 2.00 3;

BETTER FORM, INSTRUCTIONS; USE TERMS KIDS KNOW; SIMILIAR TO HOMEWORK

ID = 07031 . 1.10 SIGMA RANGE N

1

DTHER ADVANTAGES TO SELF-MADE TESTS

DISADVANT. OF SELF-MADE TEST: VALIDITY, RELIABILITY: NOT COVER ALL SKILLS

MEAN SIGMA RANGE N ID = 07033 1.36 .48 1.00 = 2.00 39

TAKES MUCH TIME, EFFORT, WORK TO MAKE A TEST

 MEAN
 SIGMA
 RANGE
 N

 ID = 07034
 1.69
 .46
 1.00 + 2.00
 39

OTHER DISAUVANIAGES TO SELF-MADE TESTS

MEAN SIGMA RANGE N
~1D = 07635 1.13 .33 1.20 - 2.20 39

FIND KIDSS LEVEL BY OBSERVATION OF WORK AND BEHAVIOR

ID = 37036 MEAN SIGMA RANGE N 10 = 37036 2.00 39

BY CHECKING PERSONAL FILE: ASK COUNSELOR, OTHER TEACHERS

MEAN SIGMA RANGE N ID # 87837 1.28 .45 1.80 # 2.80 39

BY DUING URAL MORK, KEADING ALOUD

MEAN SIGMA RANGE N ID = 87038 1.28 .45 1.00 - 2.00 39

BY GETTING WHITING SAMPLE, PARAGRAPH

MEAN SIGMA RANGE N 10 = 17039 1.30 .49 1.00 + 2.20 39



BY USING STANDARD DIAGNUSTIC TEST

HEAN SIGMA RANGE N ID = 37040 1.13 .33 1.00 = 2.00 39

BY USING DIAGNUSTIC TEST--UNSPECIFIED IF STANDARD OR SELF-MADE

MEAN SIGMA RANGE N 10 = 07041 1.59 .49 1.00 = 2.00 39

BY USING SELF MADE DIAGNUSTIC TEST

MEAN SIGMA RANGE N 10 = 87042 1.13 .33 1.00 = 2.00 39

OTHER HAYS TO FIND KIUS LEVEL

MEAN SIGNA 'RANGE N ID = 27043 1.13 .33 1.60 = 2.00 39

FIND CAUSE OF LEARNING PROBLEM BY ANALYSIS OF WORK, BEHAVIOR

MEAN SIGMA RANGE N 10 = 87844 1.33 .47 1.60 = 2.68 39

BY REFERRING KID TO COUNSELOR, RESOURCE TEACHER, SPECIAL ED.

TD = 27045 MEAN SIGMA RANGE N 10 = 27045 1.23 .42 1.00 - 2.00 39

BY CONSULTING PERMANENT FILE, COUNSELOR, OTHER TEACHERS

NEAN SICHA RANGE N 10 = 07046 1.46 .50 1.20 = 2.00 39

BY WURKING WITH STUDENT! CONFERENCE WITH STUDENT

		7	
BY	USING	DIAGNUSTIC	TEST

	MEAN	SIGMA	RANGE	N
ID = 94848	1.15	.36	1.00 - 2.00	39

BY CONTACTING PARENTS

	MEAN	SIGMA	RANGE	Ŋ
ID = 34849	1.10	.30	1.60 - 2.00	39

OTHER MEHTUDS TO DIAGNOSE LEARNING PROBLEMS

	MEAN	SIGMA	RANGE	4
ID = 27050	1.15	.36	1.00 - 2.00	39

HAS STEP-BY-STEP PROCESS TO MIAGNOSE LEARNING PRUBLEM

	MEAN	SIGMA	RANGE	N
ID = 07051	1.13	.33	1.00 - 2.00	39

FOR REMEDIATION, ENRICH., GIVE SUPPLEMENTARY PACKETS, HORKBOUKS,

K112	MEAN	SIGMA	RANGE	N
ID = 07.052	1.56	.50	1.00 - 2.00	39

GIVE DIFFERENT LEVEL TEXTS, READERS

	[™] MEAN	SIGMA	RANGE	N
\$0 = 07053	1.38	.49	1.00 - 2.00	39

GIVE TEACHER MADE MATERIALS: DITTOS, HANDOUTS

	MEAN	SIGMA	RANGE	N
10 = 37454	1.31	.46	1.00 - 2.00	39

GIVE PUZZLES, GAMES

	MEAN	SIGMA	RANGE	N
ID = 17055	1.14	. 30	1.00 = 2.00	39





Table 3.2-Continued

USE AUDIO-VISUAL AIDS, LISTENING STATION, ANALUG COMPUTER

ID = 07056 MEAN SIGMA RANGE N 1.05 .22 1.00 = 2.00 39

GIVE EXTHA-CREDIT ASSIGNMENTS, PROJECTS

ID = 0745/ MEAN SIGMA RANGE N 10 = 0745/ 1.13 .33 1.00 + 2.00 39

REFER TO RESOURCE TEACHER, SPECIAL HELP

ID = 27958 MEAN SIGMA RANGE N 1.21 440 1.20 = 2.00 39

OTHERTREADING CLASS, RASIER ASSINGMENTS FOR REMED., ENRICHMENT

TEACHEN USES ENRICHMENT ACTIVITIES

ID = 87060 MEAN SIGMA RANGE N 1.28 .45 -1.00 = 2.80 30

TEACHER STRESSES EFFORT IN DECIDING GRADES, RAHTER THAN ACHIEVEMENT

MEAN - SIGMA RANGE N - 10 = 37061 2.03 , .77 ... 1.00 = 3.00 39

REGULARLY USES CURVE IN GRADING

MEAN SIGMA RANGE N 10 = 37062 1.59 .81 1.40 = 5.40 39

TO PREVENT CONFUSION WINEW MATERIAL USE EXAMPLES -- CUNCRETE, GRAPHIC

ID = 87003 . MEAN SIGMA . RANGE N 1.18 .38 1.00 - 2.00 39

EXPLAIN DIFFERENT WAYS	USE SAHLL	STEPS: REPEAT	DETAILED LECTURE
------------------------	-----------	---------------	------------------

MEAN SIGMA RANGE N ID = 07064 1.46 .50 1.00 - 2.00 39

USE VISUAL AND AUDITORY AIDS

MEAN SIGMA RANGE N ID = 37665 1.37 .48 1.00 = 2.00 38

RELATE TO PREVIOUS MATERIAL AND BUILD FROM THERE

MEAN SIGMA RANGE N ID = 07066 1.08 .27 1.00 = 2.00 39

GENERATE INTEREST, MUTIVATION; RELATE TO REAL WORLD; BE

ENTERTAINING

MEAN SIGMA RANGE N ID = 07067 1.15 .36 1.60 = 2.00 39

ASK FOR WUESTIONS; DISCUSS WISTUDENTS; WATCH FOR PUZZLED FACES

MEAN SIGMA RANGE N ID = 07068 1.18 .38 1.00 - 2.00 39

GIVE ORAL EXPLANATION, LECTURE

MEAN SIGMA RANGE N ID = 37009 . 1.20 .45 1.00 = 2.00 39.

CHECK COMPREHENSION W/TEST, DRILL EXERCISES, BUARD WORK

MEAN SIGMA RANGE N ID = 37070 1.13 .33 1.00 = 2.00 39

GIVE HANDOUT: WRITTEN INSTRUCTIONS OR EXPLANATION, OUTLINE



Table 3.2-Continued

USE PRIVATE CONTACTS; WORK WITH STUDENTS INDIVIDUALLY

MEAN SIGMA RANGE N ID = 87072 1.10 .30 1.00 = 2.00 39

ACTIVE SUTUENT PARTICIPATION: TAKE NOTES; WORK PROBL. W/TEACHER

MEAN SIGMA RANGE N 1D = 07073 1.05 .22 1.00 = 2.00 39

OTHER: TEACH VOCABULARY; NEEP THEM QUIET; LET PEERS EXPLAIN

MEAN SIGMA RANGE N ID = 37074 1.26 .44 1.00 = 2.00 39

WHEN SUTD. HIDES CONFUSION: AVOID EMBARASSING: BUILD TRUST; DRAW THEM OUT

#EAN SIGMA RANGE N #ID = 87075 1.31 #46 1.29 = 2.00 39

GIVE HELP IN CLASS; WORK WITH STUDENT; RETEACH

MEAN SIGMA RANGE N ID = 27076 1.54 .50 1.00 = 2.00 39

GIVE HELP, TALK WITH THEM OUTSIDE OF CLASS

MEAN SIGMA RANGE N 10 = 07477 1.13 .33 1.00 = 2.00 39

CALL ON THEM IN CLASS; GET THEM INVOLVED AT BOARD, ANSWERING QUESTIONS

MEAN SIGMA RANGE N ID = 07078 1.00 .27 1.00 = 2.00 39

UP TO SUIDENT TO SEEK HELP, TAKE INITIATIVE; FORGET THOSE NOT TRYING

. MEAN SIGMA RANGE N ID = 01079 1.00 .27 1.00 = 2.00 39

GET HELP, INFORMATI	ON FROM C	COUNSELOR, P	PRINCIPAL PARENTS	CHECK
		SIGMA .27	RANGE 1.00 - 2.00	N 59
٠, ٠		,		
NOT A PROBLEM; DOES	N≤T HAPPE	N MUCH		-
10 = 27681	MEA!!	- • ·	RANGE 1.00 - 2.00	N 39
10 - 0,000	1110	• 30	1 6 6 0 2 5 6 0 0	27
OTHER: USE CONTRACTS	, PEEK TU	TORS; CATCH	IT ON TESTS; CAL	L ME AT
			RANGE . 1.00 + 2.00	N 39
•		-		
TEACHER HAS STEP-BY CONFUSION	-STEP PRO	CESS FOR ST	UDENTS WHO TRY TO) HIDE
			RANGE 1.00 = 2.00	N 39
			;	
TEACHER MAS ESTABLE BEHAVIOR	SHED RULE	S AND PRUCE	DURES FÜR APPROPE	RIATE
		•	RANGÉ 1.000 →2.00	N 30
	. 4.9./-	, + 3 (* * * * * * * * * * * * * * * * * * * *	
MUST COME PREPARED;	BRING SU	PPLIES, HOM	EWORK, MATERIALS	
ID = 07v185		SIGMA	RANGE	N 7.0
10 = 91403	1.32	. 46	1.00 - 2.00	38
MUST BE UN TIME; IN	SEAT AT	BELL; NO TA	ROINESS	
,	MEAN	SIGMA	RANGE	N
ID = 07686	1.47	.50	1.00 - 2.00	38
			•	
MUST SIT IN ASSIGNE	D SEAT			
10 = 27487	MEAN 1.13	SIGMA .34	RANGE .	۷ 38
		-	•	



MUST NUT LEAVE SEAT WITHOUT PERMISSION

MEAN SIGMA RANGE ID = 07080 1.21 .41 1.00 + 2.00

MUST NUT INTERRUPT TEACHER OR OTHER STUD.; RAISE HAND; TALK ONE

AT A TIME

MEAN SIGMA RANGE N ID = 07089 1.50 .50 1.00 = 2.00 38

NO DISRUPTION, LOUD TALKING, BOTHERING OTHERS

MEAN SIGMA RANGE N 10 = 37090 1.24 .43 1.00 = 2.00 38

NO FIGHTING, HURSEPLAY, THROWING THINGS

- MEAN SIGMA RANGE N T ID = 07091 1.18 .39 1.00 > 2.00 38

NO. GUM OR FOUD ALLOWED

MEAN SIGMA HANGE N ID = 07092 1.21 .41 1.00 = 2.00 38

EXPECT MUTUAL RESPECT, COURTES! RESPECT RIGHTS OF OTHERS

MEAN SIGMA RANGE N 1D = 07093 1.50 1.00 2.00 38

OTHER: NO PROFANITY; OBEY SHOULL RULES; CLEAN UP ROOM, ETC.

MEAN SIGMA RANGE N ID = 07094 1.37 .48 1.00 - 2.00 38

TEACHER HAS RULES FOR TURNING IN HOMEWORK AND SEATWORK

DISTINGUISHES B	ETHEEN EXCUS	SED AND UNE	EXCUSED IN ACCEPTION	NG LATE
ID = 47696	- MEAN	SIGMA	RANGE 1.00 = 2,00	N 33
10 - 27070	1,12	• 23	1.00 - 5.00	23
PENALIZES GRADE	WHEN WORK 1	IS LATE		
1		SIGMA	RANGE	N
ID = 07097	1.45	• 5 ø		33
SETS DEADLINE &	EYOND ORIGIN	AL DUE DAT	E; LOOSE UN DUE DA	ATES
			RANGE	٧
ID = 07098	1.15	•36	1.00 - 2.00	33
WORK IS DUE UN	DUE DATE			
			RANGE	N
ID = 07099	1.70	. 43	1.00 - 2.00	33
HAS PRUCEDURAL PAPER	RU_ES: DO IN	INK, PENC	IL; PUT IN TRAY; G	RADE OWN
10 = 37160			RANGE	N
10 = 37160	1.12		نصير 8 - 80 - 1	33
OTHER: CHECKS U	NLY ÚCCASION	ALLY FOR C	OMPREHENSION, ETC.	
		SIGMA	RANGE	N
10. = 07101	1.69	.29	1.00 - 2.00	33
TEACHER HAS RULE	S FUR MANIN	G UP MISSE	о монқ	
	MEAN	SIGMA	RANGE	N
10 = 01102	1.85	,36	1.00 - 2,00	39
SETS A TIME LIM	T FUR TURNI	NG IN MISS	EL WORK	
	MEAN	SIGHA	RANGE	N
10 = 07103	1.57	•54	1.00 - 2.00	57



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STUDENT MUST TAKE RESPONSIBILITY FOR SEEING THAT WORK IS MADE UP

MEAN SIGMA RANGE V ID = 37184 1.38 .48 1.88 = 2.88 37

PENALIZES GRADE FOR UNEXCUSED ABSENCE OR EXCEEDING MAKE-UP DEADLINE

MEAN SIGMA RANGE N 10 = 07105 1.22 .41 1.00 = 2.00 37

TEACHER TAKE SUME RESPONSIBILITY FOR SEEING STUDENT MAKES UP HORK

MEAN SIGMA RANGE N ID = 07106 1.11 .31 1.00 = 2.00 37

OTHER: LAISSEZ-FAIRE ATTITUDE; MISSED WORK MUST BE MADE UP, ETC.

RULES AND PROCEDURES DIFFER BETHEEN CLASSES

THERE ARE MINUR VARIATIONS IN STRICTNESS WITH VARIOUS CLASSES

MEAN SIGMA RANGE N 10 = 27169 1.29 .45 1.00 = 2.00 24

CLASS STRUCTURE IS DETERMINED BY ABILITY LEVEL

MEAN SIGMA RANGE N ID = 07110 1.25 .43 1.00 - 2.00 24

CLASS STRUCTURE IS DETERMINED BY STUDENT BEHAVIOR, RESPUNSIBILITY

MEAN SIGMA RANGE V 10 = 27111 1.50 .50 1.600 = 2.00 24 RULES, PROCEDURES DIFFER IN TERMS OF ADADEMIC EXPECTATIONS FOR

STUDENTS '

SIGMA MEAN RANGE 10 = 071121.13 .33 1.00 - 2.00 24

ORGANIZE CLASSHOUM CONTROL AT FIRST OF YEAR BY ASSINGING SEATS

MEAN SIGMA . RANGE 1.00 - 2.00 39 10 = 071131.08 .27

BY BLING STRICT, STERN AT FIRST; STAY DISTANT, LUOSEN UP LATER

SIGMA RANGE MEAN 1.00 - 2.00 10 = 371141.51 .50

BY USING VISUAL AID: PASS OUT OR POST, RULES: HAVE KIDS CUPY THEM

MEAN SIGMA RANGE 1.00 = 2.00 1.36 .48 10 = 07115

BY ENFORCING RULES; DUNST HESITATE TO PUBLISH, MAKE EXAMPLE OF KID

MEAN SIGMA RANGE .36 1.00 - 2.00 34 ID = 37116 1.15

BY USING STUDENT INPUT TO ESTABLISH AND ENFORCE RULES

SIGMA RANGE MEAN 1.00 - 2.00 10 = 371171.13 .33

BY ANNUUNCING RULES, AND THE CONSEQUENCES OF BREAKING THEM

MEAN SIGMA RANGE .46 1.00 - 2.00 10 = 071181.31

BY TELLING EXPECTATIONS; RAP SESSION; LON-KEY DISCUSSION WITH . STUDENTS

MEAN SIGMA RANGE 1.28 . 45 1.10 - 2.00 10 = 07119

185

BY BUILDING STRUCTURE GRADUALLY, INFURMALLY, NO FORMAL

PRESENTATION

ID = 07120

MEAN 1.15 SIGMA .36

RANGE 1.00 - 2.00 39

OTHER METHODS TO ORGANIZE CLASSRUOM CONTROL AT FIRST OF YEAR

MEAN

SIGMA

RANGE

ID = 07121

1.21

.40

1.60 - 2.00

CLASSROOM CONTROL METHODS HAVE BEEN SUCCESSFUL

ID = 87122

MEAN 2.70

SIGMA .48

RANGE 1.00 - 3.00

OTHER CONTROL METHODS SHE MIGHT TRY; NONE, SATISFIED WITH PRESENT SYSTEM

10 = 07123

MEAN 1.25 SIGMA

RANGE 1.88 - 2.88

43

MIGHT TRY FIRMER. STRICTER ENFORCEMENT; BE MORE CONSISTENT, FOLLOW THROUGH

10 = 07124

- MEAN 1.14 SIGMA .35

RANGE 1.00 - 2.00

MIGHT TRY REALITY THEHAPY, BEHAVIOR CONTRACTS, BEHAVIOR MOD

10 = 07125

MEAN 1.25 SIGMA .43

RANGE 1.00 - 2.00

TRY LETTING STUDENTS HELP MAKE, ENFORCE RULES, PUNISHMENTS

ID = 37126

MEAN 1.17

SIGMA .37

RANGE

1.00 - 2.00

OTHER: USE F FACTOR; ISH OPEN TO NEW IDEAS; MURE PARENT CONTACT; GROUPING

MEAN

SIGMA

RANGE

ID = 07127

1.51

.46

1.69 - 2.69

187

STUDENTS CAN MUVE TO ANOTHER SEAT IF THEY WANT

MEAN SIGMA RANGE N ID = 37128 2.11 .69 1.00 = 3.00 37

TALKING IS A PROBLEM W/FLEXIBLE SEATS; FIXED SEATS STOPS THIS

MEAN SIGMA RANGE N 10 = 07129 1.55 .50 1.00 = 2.00 30

CONFUSION, DISKUPTION RESULTS FROM FLEXIBLE SEATS; FIXED CUNTRULS

THIS

ES;

MEAN SIGMA RANGE N 10 = 37130 1.21 .41 1.60 = 2.00 38

CONTROL, DISCIPLINE HARDER W/FLEXIBLE SEATS; EASIER W/FIXED SEATS

MEAN SIGMA . RANGE N ID = 07131 1.29 .45 1.00 = 2.00 38

LEARNING NAMES, CALLING HOLL HARDER MIFLEX.; BETTER ORGANIZATION

W/FIXED

MEAN SIGMA RANGE N 1D = 17132 1.16 .36 1.00 2.00 38

SUBSI. TEACHER HAS NORE TROUBLE W/FLEXIBLE SEATS; FIXED EASIER

FOR HER

STUDENTS MAPPY, COMPORTABLE W/FLEXIBLE; FEEL STIFLED, BORED

W/FIXED SEATS

mEAN SIGMA KANGE N ID = 67134 1.47 .50 1.00 = 2.00 38

CLIQUES FORM A/FLEXIBLE SEATS: FIXED BREAKS THEM UP

MEAN SIGMA RANGE N ID = 01155 1.10 .59 1.00 = 2.00 38

OTHER PRUSS AND	CONS OF F	LEXIBLE AN	V FIXED SEATS	- *>
10 = 27136	MEA:4 1.21	SIGMA .41	RANGE 1.00 - 2.00	N 38
MAXIMAL LEARNIN	ė nccinks MI	IH FIXED SE	ATS	
10 = 0/1/37	MEAN 1.23	SIGMA .42	RANGE 1.00 - 2.00	۱ 13
,	PMENT, PEER	RELATION F	AVOR FIXED SEATS	
10 = 07138	MEAN 1.55	SIGMA 	RANGE 1.00 - 2.03	N 11
SURSTITUTE GETS ASSIGNMENT	LESSUN PLA	NS, REGULAN	Y SCHEDULED MATER	IAL,
.ID = Ø7139	MEAN 1.72	SIGMA .45	RAMGE 1.00 - 2.00	N 3 7
GETS SPECIAL LES ASSIGN:	SSUN PLAN: (ORILL, BUSY	MUHK, REVIEW, TE	ST, READIA
10 = 07140	* MEAN 1.44	SIGMA .50	RANGE 1.00 = 2.00	N 39
GETS GENERAL INF	ORMATION: F	PULES, BELL	SCHEDULE, MATERIA	ALS, FURMS
ID = 07141 .	MEAN 1.23	SIGMA ,42	RANGE 1.00 - 2.00	N 39
GETS SEATING CHA	HI, CLASS R	OLL	c	o
ID = 07142	1.26	SIGMA .44	RANGE 1.00 - 2.00	N 59
GETS NUTES ON RE	LIABLE AND	PROBLEM STU	JDENTS	
10 = 07143	MEAN 1.23	SIGMA .42	RANGE 3.845 ≈ 2.88	۷ 39



MENTIONS LIMITATIONS OF SUBS; WONST LET THEM DU-SOME THINGS

MEAN SIGHA RANGE N ID = 07144 1.08 .27 1.00 = 2.00 39

OTHER THINGS PREPARED FOR SUBSTITUTE TEACHER: PUZZLES, GAMES, ETC.

MEAN SIGMA RANGE N ID = 07145 1.13 .33 1.00 = 2.00 39

TEACHER HAS PRUBLEM WISTUDENTS WAVING HANDS, BLURTING OUT ANSWERS

MEAN SIGMA ' HANGE N ID = 07146 2.33 .89 1.00 = 3.00 39

HANDLES THIS BY REPRIMAND, RESPOND REGATIVELY, NON-VERBAL INTERVENTION

MEAN SIGMA RANGE N 10 = 0/147 1.10 .30 1.00 = 2.00 39

BY TELLING THEM TO HAISE HAND, TO STOP, WAIT, TAKE TURNS

MEAN SIGMA RANGE N 10 = 07148 1.46 .50 1.00 = 2.00 39

BY EMPHASIZING GOOD MANNERS, RESPECT OTHERS; GIVE OTHERS A CHANCE

MEAN SIGMA RANGE N ID = 07149 1.31 -.46 1.00 = 2.00 39

BY IGNURING CALLED-UUT ANSWERS

MEAN SIGMA HANCE N ID = 07150 1.13 .33 1.00 = 2.00 35

SOMETIMES NOT CONSIDERED PROBLEM, INDICATES ENTHUSIASM, WHICH IS

NICE MEAN SIGMA RANGE N
- ID = 0/151 1.21 .40 1.00 = 2.00 39

NOT CONSIDERED A PRUBLEM. OR DUESNST DEAL WITH IT; ACCEPTS ANSWER

10 = 47152

MEAN 1.18 SIGMA

RANGE

.38 1.00 - 2.30

OTHER WAYS TO MANDLE CALLED-OUT ANSWERS

IU = 87153

MEAN

SIGMA

RANGE

1.10

.30 1.40 = 2.00

IF SUTURNIS DONST VULUNTEER, CALL ON THEM; USE PATTERNED TURNS

ID = 07154

MEAN

SIGMA

RANGE

1.51

.50 1.00 - 2.00

CALL ON THEM IF SURE THEY KNOW; ASK EASY WUEST. TO AVOID

EMBARRASSMENT

MEAN

SIGMA

RANGE

ID = 07155

1.26

. 44

1.60 - 5.99

LEAVE ALONE, ESPECIALLY IF TIRED, UPSET, SHY; JUST GRADE ARITTEN WORK

MEAN 1.21

SIGMA .40

RANGE

1.00 - 2.00

DRAW THEM OUT; GIVE EXTRA ATTENTION; TALK PRIVATELY; ASK THEIR OPINION

10 = 07157

ID = 37156

MEAN 1.23 SIGMA

.42

RANGE

1.00 = 2.00

OTHER: PUT WITH A SMART KID; PRAISE CORRECT PARTS OF ANSWERS

MEAN

SIGMA

ID = 07158

. 1,10

.30

1.40 - 2.00

IF A STUDENT MUNST RESPOND, GO ON TO ANOTHER STUDENT

10/= 07154

MEAN

SIGMA

RANGE

1.18

.39

1.40 = 2.03

GO UN TO ANOTHER, BUT CONTACT LATER FOR PRIVATE CONFERENCE

MEAN SIGMA RANGE N 10 = 37164 . 1.88 .27 1.88 2.88 38

HAVE A PRIVATE CONFERENCE TO DISCUSS THE PROBLEM

MEAN SIGNA HANGE N ID = 87101 1.34 .47 1.40 + 2.30 38

EVENTUALLY INSURE, LEAVE ALUNE, AFTER OTHER STRATEGIES FAIL

MEAN SIGHA RANGE N 10 = 37102 1.24 1.00 = 2.00 38

REPEAT. REPHRADE; GIVE TIME TO THINKS ASK LEADING JUESTION; STICK WHIM

MEAN SIGHA RANGE N ID = 07165 1.16 .39 1.00 - 2.03 . 38

AVOID EMBARASSING STUDENTS PUT HIM AT EASE

ID = 07164 HEAN SIGNA RANGE N 10 = 07164 1.18 7.39 1.78 + 2500 38

NOT A PRUBLEM, RANELY HAPPENS

MEAN SIGHA 4440E 4 10 = 47105 1.11 ,31 1.40 + 2.00 .38

OTHERS REFER TO COURSELOR, OFFICES PUT ON INDIVIDUAL MURK, ETC.

#EA# Stumb HEA# Stumb HAFUE 4 10 = 0/100 1.3/ .46 1.20 38

IF NUT PAYING ATTENTIONS CALL HIS MAKE

Table 3.2-Continued

CALL ON THEM, ASK THEM A QUESTION

MEAN SIGMA RANGE N 10 = 07168 1.31 .46 1.00 = 2.00 39

REPRIMAND, CALL DOWN, THREATEN, SCOLD, CRITICIZE, EMBARRASS, PUNISH

ID = 07169 HEAN SIGMA RANGE N 1.26 .44 1.00 = 2.00 39

USE MANAGEMENT; TELL TO PAY ATTENTION, TO KNOCK IT. UFF, TO GET TO WORK

USE NON-VERBAL INTERVENTION

TALK PRIVATELY, FIND OUT WHY, DISCUSS PROBLEM WITH THE STUDENT -

ID = 87172 MEAN SIGMA RANGE ~ 39

SEEK OUTSIDE MELP: PARENT, COUNSELOR, OFFICE

DO NOTHING, LEAVE ALUNE, ESPECIALLY IF NON-DISRUPTIVE, TIRED, UPSET

MEAN SIGMA RANGE N ID = 87174 1.21 .40 = 2.00 39

OTHER: VANY ACTIVITIES TO KEEP INTEREST; CALL CLASS TO ATTENTION.

ID = 27175 MEAN SIGMA RANGE N 1.33 .47 1.00 = 2.00 39

CAUSE	ÙF	ALIENATIUN	AS	LANGUAGE.	SES,	CULTURE,	RACE,	MINORITIES
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MEAN SIGMA RANGE N 10 = 07176 1.26 .44 1.00 = 2.00 39

AS CUNSISTENT FAILURE, REPEATERS (OLDER STUDENTS)

HEAN SIGMA RANGE N ID = 27177 1.23 .42 1.00 - 2.00 39

AS PUOK SELF-CUNCEPT, LACK OF CONFIDENCE, FEAR OF FAILURE

MEAN SIGMA RANGE N 10 = 07178 1.26 .44 1.00 = 2.00 39

AS LACK OF ABILITY OR BASIC SKILL; TOO FAR BEHIMD; LOW ACHIEVERS

MEAN SIGMA RANGE N ID = 37179 1.56 .50 1.00 - 2.00 39

AS INAPPROPRIATE, IRRELEVANT MATERIALS

. MEAN SIGMA RANGE N
ID = 37180 1.10 .30 1.00 = 2.00 39

AS EMOTIONAL-PERSUNAL ADJUSTMENT PROBLEMS; PHYSICAL DISABILITY, ETC.

MEAN SIGMA RANGE N ID = 07181 1.15 ,36 1.00 = 2.00 39

AS HUME PRUBLEMS, FAMILY LIFE, HUME ENVIRONMENT

NEAN SIGMA RANGE N ID = 07162 1.31 .46 1.60 - 2.00 39

AS LACK OF PARENTAL INTEREST, ENCOURAGEMENT, OR GOOD EXAMPLE

MEAN SIGNA RANGE N 10 = 07103 1.25 .42 1.00 = 2.03 39 AS PEER PRUBLEMS, NO FRIENDS

MEAN SIGMA RANGE N ID = 87184 1.15 .33 1.00 - 2.00 39

AS SUCIAL INVOLVEMENT WITH PEERS, OPPOSITE SEX

MEAN SIGMA RANGE N 10 = 37185 1.15 .36 1.00 = 2.00 39

AS LACK OF INTEREST; DUNST VALUE EDUCATION: BORED, DONST CARE

MEAN SIGMA RANGE N ID = 07186 1.38 .49 1.00 = 2.00 39

AS BEING ANTI-AUTHURITY, DISRUPTIVE; HATE TEACHER; BELLIGERENT

MEAN SIGMA RANGE N ID = 07187 1.13 .33 1.00 = 2.00 39

AS TEACHERSS FAULT: FAIL TO MOTIVATE; GIVE BAD SELF-IMAGE; NOT WORK W/THEM

MEAN SIGMA RANGE N

10 = 47188 - 1.15 .36 1.00 = 2.00 39

OTHER; DRUGS; ABSENCE; BUSING, ETC.

MEAN SIGMA RANGE N ID = 07189 1.33 - .47 1,00 = 2.00 39

IF STUDENT WOYST DU ASSIGN.: NAG, THREATEN, FUSS, KEEP AT THEM, PRAISE

ADJUST MATERIALS, ACTIVITIES TO HIS ABILITY, INTEREST, BUILD FROM THERE

10-= 07191 1.14 .35 1.00 w 2.00 - 35

HAVE	CONFERENCE	WITH	STUDENT	TO	DISCUSS	PROBLEM
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vi.	MEAN	SIGMA	HANGE	N
ID = 07192	1.60	.49	1.00 - 2.00	35

GIVE EXTRA ATTENTION, HELP AFTER OR IN CLASS; MOVE NEXT TO .

TEACHER

MEAN SIGNA RANGE ... N.

CUNTACT PARENTS

6

REFER TO COUNSELUM, OFFICE; CONFERENCE M/COUNSELOR AND/OR PARENTS

FAIL THEM, FORGET THEM, DO NOTHING -- NO OTHER RESPONSE GIVEN

FAIL THEM. FORGET THEM AFTER OTHER STRATEGIES FAIL

DISCUSS THE PRUBLEM WITH COUNSELOR OR OTHER TEACHERS

OTHER: ASSIGN DETENTION, GUARD RELATIONSHIP WITH STUDENT, ETC.

HAS STEP-BY-STEP PROCESS FOR COPING WITH STUDENTS WHO DUNST DO ASSIGN.

ID = 0/200

MEAN 1.49 SIGMA .50

RANGE 1.KB = 2.00

IF NUT UNDERSTAND DIRECTIONS: EXPLAIN, DISCUSS, REPEAT, READ TO

STUDENT

MEAN

SIGMA

RANGE

10 = 01201

1.67

.47

1.00 - 2.09

39

PRIVATELY EXPLAIN, DISCUSS, REPEAT, READ DIRECTIONS

MEAN # SIGMA RANGE

ID = 27202

1.23

.42 1.00 - 2.00

39

HAVE STUDENT READ. RE-READ, UR REPEAT DIRECTIONS TO TEACHER

MEAN

SIGMA

RANGE

ID = 27285

1.20

.44

1.00 - 2.01

TEACHER USE DEVELOPMENTAL OR PREVENTIVE APPROACH

10 = 07204

HEAN 1.18 SIGMA .38

RANGE 1.00 - 2.00

TEACHER REACTS NEGATIVELY; WONST GIVE HELP; PENALISES GRADE

10 = 07205

MEAN 1.33

SIGMA .47

RANGE 1.00 - 2.00

DIHER: SEND TO COUNSELOR; ASK WHAT HE DOESNST UNDERSTAND; ETC.

10 = 07200

MEAN 1.13

SIGMA .33

RANGE 1.00 - 2.00 39

BOTH TEACHER AND STUDENTS ARE RESPONSIBLE FOR MOTIVATION TO LEARN

MEAN

SIGMA

RANGE

10 = 17201

1.27

Ω

. 44

176

1.00 - 2.00

TEACHER GIVES REASONS WHY STUDENTS NEED EXTERNAL MUTIVATION

- MEAN SIGHA RANGE N
10 = 07208 1.30 .46 1.00 - 2.00 37

TEACHER CUNSISTENTLY REWARDS GOOD BEHAVIOR AND GOOD WORK

MEAN SIGMA RANGE N ID = 0/209 2.55 7.71 1.00 = 3.00 38

REWARDS WURK, BEHAVIOR WIT'S GRADES, BONUS POINTS

MEAN SIGHA RANGE N 10 = 07210 1.39 .49 1.00 = 2.00 36

WITH VERVAL PRAISE

MEAN SIGRA RANGE V ID = 07211 1.56 .50 1.00 = 2.00 36

WITH MRITTEN CUMMENTS ON PAPER

WITH PUBLIC RECOGNITION: DISPLAY WORK, USE AS EXAMPLE, ETC.

with out-of-class priveleges: Library, Field Trips, Eat out, Run . ERRANDS

MEAN SIGNA RANGE N ID = 07214 1,25 .43 1.00 - 2.00 36

WITH IN-CLASS PRIVELEGES: GAMES, FILMS, TALK, NO TESTS OF HOMEWORK, ETC.

MEAN SIGMA RANGE N 10 # 17215 1.31 .46 1.60 = 2.60 30 WITH TIME UFF, FREE TIME, FREE DAYS, GET TO LEAVE EARLY

MEAN SIGMA RANGE N.

ID = 87216 1.05 .16 1.00 = 2.00 36

WITH CUNCRETE REMARDS: CANDY, AMARDS, CERTIFICATES, GUM, GIFTS

MEAN SIGMA RANGE N ID =- 37217 1.19 .40 1.00 = 2.00 36

WITH APPROVAL, LUVE, PERSUNAL ATTENTION, PHYSICAL AFFECTION, ETC.

MEAN SIGMA RANGE N ID = 07218 1.19 .40 1.00 = 2.00 36

WITH COMPLIMENTARY NUTES TO PARENTS: CALL PARENTS TO BRAG

BECOMING CLOSE TO STUDENTS IS A PLUS FOR BUILDING RAPPORT

MEAN SIGHA RANGE N ID = 07220 2.74 .91 1.00 = 4.00 38

SOCIAL RELATIONSHIP W/STUDENT MORE IMPORTANT THAN ACADEMIC PROGRESS

#EAN SIGMA RANGE N 10 = 07221 1.77 .62 1.00 = 3.00 39

RELATIONSHIP W/STUDENT IMPORT, BECAUSE MORE YOU KNOW, BEITER YOU CAN TEACH

MEAN SIGNA RANGE N 10 = 47222 1.13 .33 1.00 = 2.00 39

BECAUSE RELATIONSHIP IS STRONG MUTIVATOR; WILL WORK TO PLEASE T.

MEAN SIGMA RANGE N 10 = 0/225 1.15 .30 1.00 39

BECAUSE TEACHER.	STUUENTS M	IORE COMFOR	TABLE, RECEPTIVE	
iD = 07224	MEAN 1.13	SIGMA ,33	RANGE 2.40	N 39
HANDLE DISHUPTIVE	STUDENT 8	Y CONFEREN	CE, TALK	
10 = 27225	MEAN 1.71	SIGMA .45	RANGE 1.40 - 2.40	N 38
BY REALITY THERAP	Y, CUNTRAC	T3	٠	
10 = 9/550	MEAN 1.26	SIGMA .44	RANGE 1.09 - 2.00	N 38
BY MANAGEMENT, TH	REAT, CIRT	ICIZE, MAR	N, ETC.	
10 = 47227	MEAN 1.39		RANGE	N -38
BY ISULATING STUD	ENT; MUVE	UP FRUNT.	İNTU HALL	r
ID = 07228	MEAN 1.45	SIGMA •50	RANGE 1,00 → 2.00	N 38
BY KEEPING AFTER	SCHUOL, AF	TER CLASS	,	v
10 = 07229	MEAN 1.29	SIGHA .45	RANGE 1.00 - 2.00	N 38
BY CONTACTING PAR	ENTS, SEND		OME	
ID = 0/230	MEAN . 1.37	SIGMA •48	RANGE . 1.00 - 2.00	N 38
BY REFERRING TO C STUDENT	UUNSELOK;	CONFERENCE	#/PARENT, COUNSEL	OK,
10 = 47231	MEAN 1.11	SIGNA .51	. RANGE 1.00 - 2.00	₩ 38



BY SENDING TO PRINCIPAL, OFFICE

BY SENDING TO DETENTION, ISS. UCS

MEAN SIGMA RANGE N 10 = 07233 1.24 .43 1.00 = 2.00 38

OTHER: IGNURE HIM; HAVE THEM DO SPECIAL ERRANDS, WIRTE SENTENCES

MEAN SIGNA RANGE N ID = 07234 1.29 .45 1.20 + 2.00 38

TEACHER HAS STEP-BY-STEP PROCESS FUR HANDLING DISRUPTIVE STUDENTS

'MEAN SIGMA RANGE N: ID = 67235 1.53 .50 1.00 - 2.00 36

STUDENTS DISCIPLINED FOR DISRUPTION, DISOBEDIENCE, BUTHERING OTHERS

MEAN "SIGMA RANGE N 10 = 07230 1.51 .50 1.00 = 2.00 39

FOR PROFAMITY, SWEARING, VULGAR LANGUAGE

ID = 07237 MEAN SIGMA RANGE V 1.10 .30 1.00 = 2.00 39

FOR LACK OF RESPECT, CONSIDERATION FOR TEACHER, OTHER STUDENTS

FOR CONSTANT TALKING, INTERRUPTING, CALLING OUT, WUNST SHUT UP

MEAN SIGAA RANGE V 10 = 07239, 1.20 .44 1.00 = 2.00 39 FOR ROUGHHOUSING, FIGHTING, THROWING, DESTRUCTION OF PROPERTY

ID = 07243.

MEAN.

SIGMA

1.41

. 49

1.00 - 2.00

FOR DISKEGARDING SCHOOLWURK: TARDY, NOT BRING MATERIALS, NOT DO

WORK

10 = 07241

MEAN

· SIGMA

RANGE

1.18

. .38

1.00 - 2.00

TO ESTABLISH CREDIBILITY, MUST BE CONSISTENT: FOLLOW THROUGH

MEAN

SIGMA

RANGE .

ID = 37242

1.39

. 49

1.00 - 2.00

MUST BE FAIR: TREAT ALL THE SAME, DONST PLAY FAVORITES

MEAN

SIGHA

10 = 47243

1.21

. 41

1.00 - 2.00

MUST BE HUNEST, SINCERE

ID = 87244

MEAN 1.18

SIGMA . 39

~ RANGE 1,00 - 2.00

MUST MAINTAIN (EACHER ROLE: KNOW SUBJECT; CORRECT IN MANNER, ETC.

ID = 77245

MEAN 1.20

SIGMA . 44

RANGE 1.00 - 2.00

MUST SHOW TRUST, CARING, RESPECT FOR STUDENTS

ID = 07245

MEAT 1.21

SIGMA .41

RANGE

1.00 - 2.00

. MUST ADMIT MISTAKES, HE A REAL PERSON

10 = 37247

MEAN 1.21

SIGMA .41

RANGE -1.00 - 2.00

POTHER: GQ BY EXPERIENCE; SET GOOD EXAMPLE: THEY KNOW MY REPUTATUIN

MEAN SIGMA RANGE N 10 = 87248 1.26 .44 1.00 = 2.00 3

THINKS THAT STUDENT KATINGS OF TEACHERS AND CLASSES ARE VALID

MEAN SIGMA RANGE N 10 = 07249 2.18 .71, 1.00 = 3.00 39

RATINGS INVALID BECAUSE STUDENTS IMMATURE, EMOTIONAL, DONST THINK

BECAUSE KIDS LESPUND TO TRHELEVANT FACTORS: REVENGE, PEER PRESSURE. ETC.

MEAN SIGMA RANGE N 10 = 07251 1.30 .48 1.00 = 2.00 22

BECAUSE OF FAULTY PROCEDURE: POORLY WORDED, TIMED: NOT EXPLAINED, ETC.

MEAN SIGMA RANGE N ID = 07252 1.27 . .45 . 1.00 + 2.00 22

KIDS CAN DISTINGUESH ABILITY TO TEACH VERSUS ESTABLISH RAPPORT

10 = 47253 MEAN SIGHA RANGE N 2.28 .81 1.00 = 3.00 39

TEACHER CUNTRADICTS HERSELF IN QUESTIONS 55-57

MEAN SIGMA RANGE N 10 = 27254 1.95 .22 1.00 = 2.00 39

THE WHULE CLASS IS INVULVED IN CLASS DISCUSSIONS

TH = 1/255 1.65 SIGNA RANGE N 10 2.00 24 FREQUENCY OF CLASS DISCUSSIONS

MEAN SIGMA RANGE N ID = 0/256 1.27 .57 1.00 = 3.00 15

STUDENTS LEARN BY HEARING OTHERS; SLOWER ONES LEARN FROM BRIGHTER

MEAN SIGNA RANGE N ID = 07257 1.36 .48 1.00 = 2.00 39

TEACHER CAN-FIND PRUBLEM AREAS; SEE IF UNDERSTAND; CATCH QUESTIONS

MEAN SIGMA RANGE N ID = 07250 1.26 .44 1.00 = 2.00 39

EFFECTIVE USE OF TEACHER TIME; HHOLE CLASS HEARS WHAT IS SAID

STIMULATES MOTIVATION, INTEREST; BETTER ATTENTION, BEHAVIOR

MEAN SIGHA RANGE N

10 = 37260 1.33. .47 1.00 - 2.00 39

LEARN CUMMUNICATION SKILLS: CHANCE FOR INTERACTION, SELF-EXPRESSION

ESTABLISH IDENTITY, GAIN CONFIDENCE; ALL PARTICIPATE, SHY KIDS TALK

MEAN SIGMA RANGE N 10 = 07262 1.44 .50 1.00 = 2.00 39

CTHER: BRIGHTS LEARN TULERANCE; SAVES PAPERWORK; DISCUSSIONS ARE FUN, ETC.

MEAN SIGMA RANGE N ID = 01263 1.15 . .33 1.60 .= 2.40 39

MANY [DUNST	OR	MONST	PARTICIPAT	TE IN	CLASS	DISCUSSIONS
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TIRING FOR TRACHERS HARD TO GIVE ALL A CHANCE; MUST ATTEND

CLOSELY

MEAN SIGMA RANGE N 10 = 87265 1.28 .45 1.69 = 2.80 39

CONTROL, BEHAVIOR PRUBLEMS MAY DEVELOPE

MEAN SIGMA RANGE N ID = 3/260 1.25 .42 1.00 - 2.00 39

DISC. MAY GET MISDIRECTED, PETTY, TRIVIAL, MAY START ARGUMENT

MEAN SIGMA RANGE N ID = 37267 1.18 .38 1.60 = 2.00 39

HARD TO WITH DIFFERENT ABILITY LEVEL STUDENTS

MEAN SIGMA RANGE N ID = 87268 1.21 .40 1.00 = 2.00 39

LOSS OF ATJENTION; KIDS TUNE OUT; DONST LISTEN TO EACH OTHER

MEAN SIGMA RANGE N 10 = 07269' 1.10 .30 1.00 = 2.00 39

NO DISADVANTAGES TO CLASS DISCUSSIONS

MEAN SIGMA RANGE N 3D = 07270 1.00 .27 1.00 - 2.00 39

OTHER: REMARDS CUMPETITIVENESS; CANST TEACH TO INDIVIDUALS, ETC.

MEAN SIGNA RANGE N 10 = 07271 1.23 .42 1.00 = 2.90 39 TEACHER TARGETS WUESTIONS TO BRIGHTER, OR SLOWER, ETC.

MEAN SIGMA RANGE N ID = 07272 1.38 .49 1.00 - 2.00 39

ENUALIZES MUESTIONS, OR TARGETS FOR SPECIFIC REASONS

MEAN SIGMA RANGE N ID = 07273 1.40 ..50 1.00 = 2.03 39

TEACHER DUES NOT SAY WHETHER OR NOT SHE TARGETS WUESTIONS

MEAN SIGMA RANGE N TO = 47274 1.13 .33 1.00 = 2.00 39

TEACHER DIRECTS HURE QUESTIONS TO BRIGHTER STUDENTS

MEAN SIGMA RANGE N 10 = 07275 1.69 .31 1.00 = 2.00 18

TEACHER GUES TO STUDENT DURING SEATWORK PERIODS

MEAN SIGMA RANGE N ID = 37276 3.13 1.24 1.00 = 5.00 39

IN LITERATURE, USE PROJECTION, COUNTERPOINT

MEAN SIGMA RANGE N 10 = 37277 1.71 .45 1.00 = 2.00 35

IN LITERARURE, USE EASIER SUPPLEMENTARY MATERIALS

MEAN SIGHA RANGE " N ID = 07278 1.31 .46 1.00 - 2.00 35

IN SPELLING, USE BASIC GUALS IN SPELLING

MEAN SIGMA RANGE N ID = $\Delta/279$. 1.83 .38 1.00 = 2.00 35



SIGMA

RANGE

1.00 - 2.00

IN GRAMMAR, USE NEW APPRUACHES (ADOPTED TEXT)

MEAN

1.71

10 = 37289	1.26	• 44	1.20 = 2.00	35
IN GHAHMAR, ETC.	USE SUPPLEHENTARY	MATERIALS	, workauoks, se	LF=MADE
In = 44581	MEAN 1.54	SIGMA .50	1.00 = 2.00	N 35
PROGRESS IN	SPELLI4G			
	MEAN	SIGMA	RANGE	N

PROGRESS IN GRAHMAN

ID = 47282

	MEAN	SIGMA	RANGE	N
10 = 07203	1.65	.48 '	1.00 - 2.00	17
	•			

. 45

- PROGRESS IN LITERATURE

USES MUDERN SCHOOL MATHEMATICS ONLY

USES HIGHER LEVEL MATERIAL IN ADDITION TO ADOPTED TEXT

USES EASIER MATERIALS IN AUDITION TO ADOPTED TEXT



GHOUPS, INDIVIDUALS IN CLASS ACCOMPLISH DESIRED	AALTUREN OF	9
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EACHER EVALUATES	SUBGROUPS	HT NIHTIW 6	E CLASS	
ID = 87269	MEAN 1 . 43	SIGMA ,50	RANGE 1.00 - 2.00	N . 30
CONCENTRATED ON WI	KITING SKI	(LLS, COMPU	SITION, PARAGRAPHS	5
ID = 07290	MEAN 1.72	SIGMA .45	RANGE 1.00 - 2.00	N 39
ON SPELLING, VUCA	BULARY			
ID = 37291	MEAN 1.56	SIGMA .50	RANGE 1.40 - 2.00	N 39
ON GRAMMAR, SENTE	NCE STRUCT	TURE		
ID = 07292	MEAN 1.54	SIGMA 02.	RANGE 1.00 - 2.00	N 39
ON READING COMPRE	HENSION, R	EADING SKI	LLS	
ID = 27293	MEAN 1,26	SIGMA •44	RANGE 1.00 - 2.00	N 39
ON LITERATURE, MYT LITERATURE		•	3	
ID = 07294	MEAN 1 2 4 1	SIGMA .	RANGE 1.00 - 2.00	N 39



MEAN 1,23

10 = 27295

N 39

ON SELF-RELIANCE, RESPONSIBILITY, INDEPENDENCE, ETC.

MEAN SIGMA RANGE 10 = 07296 1.23 .42 39 1.00 - 2.00

OTHER: LIDRARY RESEARCH, DICTIONARY, SEE RELEVANCE OF CLASSWORK

MEAN SIGMA RANGE ID = 0129" 1.15 .36 1.00 - 2.00 39

CONCENTRATE ON 4 OPERATIONS ON DECIMALS, PERCENT, FRACTIONS

SIGMA MEAN RANGE 10 = 07298 -0.00 -6.00 60.00 - 04.00 -0

ON GEONETRY, ALGERRA, HIGH SCHOOL PREPARARION

MEAN SIGMA RANGE ID = 07299 -U, 60 - -U. 20 **-**3.0⊌ -0.00

ON UNDERSTANDING MATH, RELATING TO REAL HURLD

MEAN SIGHA RANGE 10 = 27360 -W. NO - -3. WA -0.00 ~0.00

ON PERSONAL AND INTELLECTUAL GROWTH

MEAN SIGMA RANGE 10 = 37361 -6.68 ⊕6.94 -0.00 - -0.00

BECAUSE IMPUNTANT FUN LATER LIFE; IS A BASIC; NEED THIS TO **FUNCTION**

MEAN SIGMA RANGE 10 = 0/302 1.63 1.00 - 2.00 .48

BECAUSE IMPORTANT FUR OTHER CLASSES, HIGH SCHOOL, CULLEGE

MEAN SIGMA RANGE 10 = 27303 .41 1.00 - 2.00 1.21

BECAUSE NEEDED THIS MOST; HAD HEEN NEGLECTED; WERE FAR BEHIND

MEAN SIGMA RANGE N 10 = 37304 1.16 - .36 1.60 = 2.00 38

BECAUSE UP DISTRICT GUIDLINES, STANDARD OBJECTIVE, ETC.

MEAN SIGMA KANGE N ID = 07305 1.16 .36 1.00 + 2.00 38

OTHER: EXPANU INTELLECT; LAST CHANCE TO GET IT, PERSUNAL REASONS, ETC.

MEAN SIGMA RANGE N ID = 87386 1.26 .44 1.00 = 2.00 38

ASSIGN LESS IMPORTANCE TO GRAMMAR, LINGUISTICS

MEAN SIGMA RANGE N ID = 873r7 1.41 .49 1.60 = 2.00 29

TO LEARNING OR MEMORIZATION OF SPECIFIC FACTS

ID = 87388 MEAN SIGMA RANGE N' 1.28 .45 1.00 = 2.00 29

TO SPELLING, VUCABULARY, LITERATURE

MEAN SIGMA RANGE N ID = 0/309 1.38 .49 1.00 + 2.00 29

TO GEOMETRY, ALGEBRA, TRIG.

TO BASES

ኮΕΛΝ SIGMA MANGE N ^ID = Λ7311 = #8.656 = #8.666 = #8.660 = #8 TO NUMBER THEORY, PRUBABILITY, STATISTICS, SETS PROPERTIES

MEAN SIGMA RANGE N 10 = 01312 = พ.ยง +ย.ยง +ย.ยง +ย

OTHER: PERCENT, FRACTION, DECIMALS, WORK PROD., FLUW CHARTS, ETC

MEAN SIGMA RANGE V 10 = 8/313 = 0.60 = 0.00 = 0

BECAUSE LESS IMPUNTANT, USEFUL FOR LATER LIFE

BECAUSE OF LACK OF TIME

MEAN SIGMA RANGE N 10 = 6/315 1.08 .28 1,00 = 2.00 36

BECAUSE TOU DIFFICULT. AUSTRACT; STUDENTS NOT PREPARED

ID = 07316

MEAN SIGMA RANGE N
1.00 .23 1.00 = 2.00 36

BECAUSE MEMORIZING NOT AS IMPORTANT AS UNDERSTANDING CUNCEPTS

ID = 27317 MEAN p SIGHA RANGE N
1.17 .37 1.00 - 2.00 36

BECAUSE THEY DUNST NEED IT NOW; ALREADY HAD IT; GET IT LATER

ID = 07318 NEAN SIGMA RANGE N 1.08 .28 1.00 36

ALL AREAS ARE IMPUHTANT! NUNE GIVEN LESS IMPURTANCE

ID = 07519 MEAY SIGMA RANGE N 1,22 .42 1.00 30 OTHER: MATERIAL FORGUTTEN QUICKLY; TRY NOT TO PUSH TOO HARD, ETG.

MEAN SIGMA RANGE N ID = 37320 1.22 .42 1.00 = 2.04 36

BUSING ACHIEVES DESIRED GOALS FOR MINORITIES

MEAN SIGMA RANGE N 10 = 07321 1.67 .91 1.60 = 3.00 39

EXPUSES STUDENTS OF DIFFERENT IDEAS, CULTURE, LIFESTYLE

MEAN SIGMA RANGE N ID = 37322 1.51 .50 1.00 = 2.00 39

BREAKS DOWN PREJUDICE; KIDS LEARN TOLERANCE, UNDERSTANDING

MEAN SIGHA RANGE N TD = 07323 1.26 .44 1.00 = 2.00 39

MINUMITIES GET BETTER EDUCATION, FACILITIES; MURE OPPORTUNITIES

MEAN SIGMA RANGE N 10 = 37324 1.26 .44 1.60 = 2.00 39

NO ADVANTAGES TO BUSING

MEAN SIGMA RANGE N ID = 07325 1.10 .30 1.60 = 2.00 39

OTHER: SATISFIES COURTS: POLITICAL ADVANTAGES: INTEGRATES

NEIGHBORHOOD

MEAN SIGMA RANGE N

10 = 27320 1.00 = 2,00 39

TIME SPENT ON BUSSES MAKES KIDS TIRED, UPSET, HAVE TO COME SU FAR

MEAN SIGMA RANGE N 30 = 0/327 * 1.23 .42 1.00 + 2.00 39

DOWNGRADES EDUCATION: HURTS CAPABLE KIDS

ME'AN SIGMA RANGE N ID = 87328 1.21 .40 1.00 = 2.00 39

MINURITIES FEEL INFERIUR, FRUSTRATED COMPETING W/ADVANTAGED -WHITES

MEAN SIGMA · RANGE N' ID = 27329 1.31 .46 1.00 = 2.00 39

KIDS, PARENTS CANST BE IN EXTRA-CIRRICULAR ACTIVITIES, PIA, ETC.

MEAN SIGMA RANGE N 10 = 07330 1.00 + 2.00 39

DESTROYS NEIGHBURHOUD CONCEPT; KIDS DONST IDENTIFY W/ NEW SCHOOL

MEAN SIGMA RANGE N
- ID = 07331 1.41 .49 1.00 = 2.00 39

BUSED KIDS FEEL ANGRY, RESENTFUL; HOLD NEGATIVE ATTITUDES

MEAN SIGMA RANGE N ID = 07332 1.31 .46 1.00 + 2.00 39

CAUSES DISHUPTION, TENSIUN, RACIAL CONFLICT

MEAN SIGMA RANGE N ID = 07333 1.18 .38 1.00 = 2.00 39

DNF-WAY BUSING WONST WORK; UNFAIR; ONLY BLACKS ARE BUSED

MEAN SIGMA RANGE N ID = 07334 1.65 .22 1.60 - 2.60 39

OTHER: BLACKS MIGS OUT UN OWN CULTURE TEACHER CANST COPE; ISNST HELPING

NEAN SIGHA RANGE N 10 = 07335 1.25 .42 1.00 = 2.00 39

WORKS W	1TH	FELLOW	TEACHERS	IN	HER	SUBJECT	MATTER
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			•	
	MEAN	SIGMA	HANGE	N
10 = 07336	1.92	.87	1.00 - 3.00	38
**				
INTERACT BY SHAR	ING IDEAS,	MATERIALS;	PLANNING UNITS	•
	MEAN	SIGMA	RANGE	N
10 = 07337	1.38	. 49	1.00 - 2.00	26
Ne.	at .			
	,		*	
BY FORMAL STRUCT MEETINGS	UHED MEETI	NGS, CURRIC	ULUM DAY; DEPARTM	ENT
PIECI INGS	MEAN	SIGMA	RANGE	N
ID = 07338	1.31	.46	1.00 - 2.03	56
			٩	
•				
BY MEETING INFUR	MALLY IN L	UUNGE, RAPP	ING IN HALLS, ETC	•
,	MEAN	SIGMA	RANGE	N
10 = 07339	1.35	.48	1.00 - 2.00	26
	•		•	
CONTACT LIMITED	BY CUMMUNI	TY/TEAM STR	UCTURE OF FACULTY	
•	MEAN	SIGMA	RANGE	N
10 = 07340	1.12	.32	1.00 - 2.00	56
· · · · · · · · · · · · · · · · · · ·	•			
	•	•		
. HAS SUPERVISURY	RULE: DEPA	RTHENT CHAI	RMAN, COORDINATUR	, ETC.
· ·	MEAN	SIGMA	RANGE	N
10 = 87341	1.27	. 44	1.00 - 2.00	56
WORKS W/ CUUNSEL			^	
WORKS W/ CUUNSEL	OR AS LITT	LE AS PUSSI	BLE, NOT AT ALL.	
	MEAN	SIGHA	RANGE	N
10 = 87342	1.13	. 33	1.60 - 5.90	39
			•	
ACADEMIC SCHEDUL	ING; CHOUS	ING HIGH SC	HOOL COURSES	
ø	MEAN	SIGMA	RANGE	N
10 = 07343	1.13	. 33	1.00 - 2.00	39



REFER BEHAVIOR OR EMOTIONAL PROBLEMS FOR COUNS	LING
--	------

MEAN SIGMA RANGE 10 = 373441.50 ,50 1.00 - 2.00 GET ADVICE, BACKGROUND INFORMATION, TEST DATA UN STUDENTS MEAN SIGMA ID = 07345 1.64 . 48 1.00 - 2.00 COUNSELOR LEADS GROUP DISCUSSION, HUMAN RELATIONS PROGRAM, CAREERS MEAN SIGMA ID = 07346 1.13 .33 1.00 - 2.00

COUNSELOR HAS CONFERENCES WITH TEACHER, STUDENT, PARENT

ID = 87347 MEAN SIGMA RANGE N 1.15 .36 1.00 - 2.00 .39

OTHER: WORK W/ COUNSELOR DURING RETREATS, OVER-LUNCH, ETC.

TEACHER HAS HAD A STUDENT TEACHER

ID = 37349 MEAN SIGMA RANGE N 1.52 .50 1.00 = 2.00 33

GET NEW IDEAS, LEARN FROM THEM

10 = 0/350 MEAN SIGMA RANGE N 1,02 ,49 1.00 + 2.00 26

MORE TEACHING CAPACITY; DOUBLES TEACHER-STUDENT RATIO

ID = 07351 MEAN SIGMA RANGE N 1.23 .42 1.40 - 2.00 26 TEACHER HAS MORE TIME FUR PLANNING, CLERICAL WORK

MEAN SIGMA RANGE N ID = 27352 1.19 .39 1.00 = 2.00 26

PROFESSIONAL DUTY TO HELP NEW TEACHER; GOOD, REWARDING FEELINGS

= MEAN SIGMA RANGE N ID = 07353 1.15 .36 1.60 = 2.00 26

GOOD FOR KIDS TO BE EXPOSED TO NEW PERSON, DIFFERENT' TECHNIQUES

MEAN SIGMA RANGE N ID = 07354 1.19 .39 1.00 = 2.00 26

DIHER: SEE HOW KIDS REACT WITH SOMEONE ELSE, ETC.

MEAN SIGMA HANGE N ID = 07355 1.31 .46 1.00 = 2.00 26

HAS NEGATIVE EXPECTATIONS FOR EFFECTIVENESS OF STUDENT TEACHER

MEAN SIGMA RANGE N ID = 07356 1.64 .48 1.00 - 2.00 25

DISCIPLINE PROBLEMS DEVELOPE WITH A STUDENT TEACHER

 №
 MEAN
 SIGMA
 RANGE
 N

 ID = 27357
 1.44
 .50
 1.00 = 2.00
 25

STUDENT TEACHERS ARE TIME CONSUMING, A LOT OF WORK

MEAN SIGMA RANGE N 10 = 67350 1.32 .47 1.00 = 2.00 25

STUDENTS HAVE PRUBLENS AUJUSTING TO NEW TEACHER

- MEAN "SIGHA RANGE N 10 = 07359 1.20 .40 1.00 = 2.00 25 TEACHER LUSES CONTACT WITH STUDENTS

10 = 37360 NEAN SIGMA RANGE N 10 = 37360 1.20 .40 1.20 = 2.00 25

OTHER DISAUVANIAGES OF HAVING A STUDENT TEACHER

MEAN SIGNA RANGE N 10 = 27361 - 1.16 .57 1.00 = 2.00 25

TEACHER IS FAMILIAR WITH MATERIAL IN CAT MATH TEST

" MEAN SIGMA TRANGE " N ID = 07362 -0.00 -0.00 -0.00 -0.00 -0.00

CAT IS ADEQUATE MEASURE OF MATH ABILITY FOR MY STUDENTS

#EAN SIGMA RANGE N ID = 07363 - 00.00 -0.00 -0.00 -0

USES REMEDIAL TECHNIQUES TO TEACH MATH TO THOSE WHO CANST READ

MEAN SIGMA. RANGE N
ID = 07365 = 0.00 = 0.0

AVOIDS PRUBLEM: TEACHER, STUDENTS READ TO NON-READER

MEAN SIGMA RANGE N
10 = 27366 -- 0.00 -- 0.00 -- 0.00 -- 0.00

AVOIDS PHUBLEY: GIVE ORAL DIRECTIONS, EXPLAIN VERBALLY, DISCUSS

MEÁN SIGMA RANGE N ID = 47357 +0.00 +0.00 +0.00 +0.00 +0

AVOIDS PRUBLEM: NU WORD PRUBLEMS, TAKE READING OUT OF ASSIGNMENTS.

MEAN SIGMA RANGE N ID = 87368 = ₩, 80 = ₩, 80 = ₩, 80 = ₩ DTHER: GAMES, PACKETS, PUZZLES, ETC.

MEAN SIGMA RANGE N

ID = 87369 → 0.80 → 0.8

USES BOTH REMEDIATION AND AVOIDANCE TECHNIQUES W/NON-READERS

MEAN SIGMA RANGE N

10 = 37370 +0.00 +0.00 +0.00 +0.00

AMOUNT OF PROGRESS MADE BY SLOWER STUDENTS

MEAN SIGMA RANGE N

ID = 37371 -0.60 -0.00 -0.00 -0.00 -0.00

TEACHER DIFFERENTIATES PRUGRESS AMONG SLOW STUDENTS

MEAN SIGMA RANGE N.

PROGRESS IS AFFECTED BY AMOUNT OF TEACHER-STUDENT CONTACT.

MEAN SIGMA RANGE N ID = 47374 = 0.00 = 0.00 = 0.00 = 0

BY AFFECTIVE VARIABLES: MOTIVATION, CONFIDENCE, PRAISE, TRUST,

ETC.

MEAN SIGMA RANGE 'N ID = 07375 -0.00 -0.00 -0.00 -0.00

BY ACADEMIC FACTORS: METHODS, MATERIALS, STUDENT ABJULTY

MEAN SIGMA RANGE / N ID = 87376 -0.80 -0.00 -0.00 -0.00 -0.00 -0.00

OTHER REASONS FOR PROGRESS OR LACK OF PROGRESS

MEAN SIGHA RANGE 1 N ID = 07377 = 0.00 = 0.00 = 0.00 = 0

TEACHER GAVE	REASUNS	FOR	HER	STUDENTSS	PROGRESS
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. MEAN SIGMA RANGE N ID = 27378 שט טיים שט שט שט טיים אויים
TEACH SPELLING BY GOING UVER PRONUNCIATION, MEANING

ID = 97379 MEAN SIGMA RANGE N 1.21 .40 1.00 = 2.00 39

BY DIVIDING WORDS INTO SYLLABLES

MEAN SIGMA RANGE N 10 = 37380 1.23 .42 1.00 = 2.00 39

BY USING IN SENTENCES, IN CONTEXT

MEAN SIGMA RANGE N ID = 07381 1.33 .47 1.00 = 2.00 39

BY DUING DRILL, WRITTEN EXERCISES, HUMEWORK

" MEAN SIGHA RANGE N ID = 87388 1.51 .50 1.00 = 2.00 39

BY DUING PUZZLES, WURD GAMES, USING FLASH CARDS .

MEAN SIGMA RANGE N 1 ID = 07383 1.21 .40 1.00 ∞ 2.00 39

JEAL WURKE REPETITION, BOARD WORK, SPELLING BEES

MEAN SIGMA RANGE N 10 # 47504 1.00 = 2.00 39

TEACH HULES, PHONETIC CONCEPTS

MEAN SIGMA RANGE " No. 10 # 2.00 39

STRESS RECUGNITION OF WORD ROOT, PREFIX, SUFFIX

MEAN SIGMA RANGE N ID = 07386 1.21 .40 1.00 = 2.00 39

GIVE TESTS: EITHER PRETEST OR END OF UNIT TEST

MEAN SIGMA RANGE N ID = 07387 1.26 .44 1.00 = 2.00 39

OTHER: INDIVIDUALIZE MEMURIZE, DO DICTIONARY WÜRK

MEAN SIGMA RANGE N ID = 27368 1.36 .48 1.00 - 2.00 39

USFS INDIVIDUAL SEATHORK ONLY, TO TEACH SPELLING

MEAN SIGMA RANGE N ID = 27389 1.23 .42 1.00 - 2.00 39

USES WHOLE CALSS ACTIVITIES ONLY TO TEACH SPELLING

MEAN SIGMA \$ RANGE N ID = 27390 1.15 .36 1.00 - 2.00 39

USES BUTH SEATWORK AND CLASS ACTIVITIES TO TEACH SPELLING

MEAN SIGMA RANGE N ID = 07391 1.62 .49 1.00 = 2.00 39

FOR NON-READERS, USE SPECIAL MATERIALS, HIGH INTEREST, LUMER LEVEL

MEAN SIGMA RANGE N ID = 07392 1.71 .45 1.00 - 2.00 38

USE INDIVIDUAL HELP; EXTRA ORAL READING; SPECIAL ATTENTION

MEAN SIGMA RANGE V 10 = 47393 1.34 .47 1.00 = 2.00 30

Table 3.2-Continued

USE PEER TUTORS, COLLEGE SUTDENTS: BUDDY SYSTEM

•	MEAN	SIGMA	RANGE	N
10 = 07394	1.16	.36	1.00 - 2.00	38

USE RESOURCE TEACHER, READING SPECIALIST, READING SKILLS LAB

•	MEAN	SIGMA	RANGE	N
10 = 07395	1.34	.47	1.00 - 2.00	38

USE AUDIOVISUAL AIDS

OTHERS GIVE URAL DIRECTIONS; READ TO STUDENT, ETC.

USES TECHNIQUES TO REMEDIATE READING PROBLEM

USES PEER TUTORING

PEER TUTURING MAXIMIZES TEACHER TIME AND EFFORT

PEER TUTURING HAS ACADEMIC ADVANTAGES FOR TUTEE.

HAS AFFECTIVE ADVANTAGES FOR TUTEE

MEAN SIGMA RANGE N -ID = 07402 1.53 .50 1.00 = 2.00 36

HAS ADVANTAGES FOR TUTOR, BOTH ACADEMIC AND AFFECTIVE

MEAN SIGMA RANGE N ID = 07403 1.36 .48 1.00 = 2.00 30

PEER TUTOR EFFECGIVENESS LIMITED BY HIS SKILLS AND KNOWLEDGE

MEAN SIGMA RANGE N ID = 37484 1.37 .48 1.00 = 2.00 35

TUTORING SESSION MAY TURN INTO SUCIALIZING

MEAN SIGMA RANGE N ID = 37405 1.23 .42 1.00 = 2.00 35

TUTOR-TUTEE INTERPERSUNAL PROBLEMS MAY ARTSE

MEAN SIGMA RANGE N ID = 07406 1.40 .49 1.60 = 2.00 . 35

PEER TUTOR IS PENALIZED ACADEMICALLY; TAKES TIME FROM OWN WORK

MEAN SIGMA RANGE N 10 = 07407 1.26 .44 1.00 = 2.00 35

TENCHER HAS STUDENTS REAU ALOUD

. MEAN SIGMA RANGE N ID = 47408 1.85 .36 1.00 = 2.00 39

STUDENTS HEAD ALOUD TO ASSESS ABILITY, CATCH PROBLEMS

MEAN SIGMA RANGE N' 10 = 07409 1.89 .45 1.00 = 2.00 38

TO INSURE ALL UNDERSTAND; AID TO POOR READERS

ID = 07410 MEAN SIGMA RANGE N 1.47 .50 1.00 - 2.00 38

BECAUSE KIDS ENJOY IT

MEAN SIGMA RANGE N ID = 27411 1.39 .49 1.00 = 2.00 38

TO FACILITATE PARTICIPATION, GAIN INTEREST

ID = 87412 MEAN SIGMA RANGE N 1.26 .44 1.00 - 2.00 38

TO FACILITATE DISCUSSION; QUESTIONS ARISE; CAN STRESS POINTS

AS TEACHING TOUL; GIVES PRACTICE; LEARN PRONUNCIATION

MEAN SIGMA RANGE N ID = 87414 1,18 .39 1.00 - 2.00 38

OTHER HEASUNS TO HAVE STUDENTS READ ALOUD

MEAN SIGNA RANGE N 10 = 07415 1.15 .36 1.00 = 2.00 39

APPHUPHIATE COMPUSITION CRITERIA INCLUDE PUNCTUATION, CAPITALS

ID = 07416 ... MEAN SIGMA RANGE N 1.41 .49 .1.00 + 2.00 39

INCLUDE SPELLING

ID = 37417 $\frac{\text{MEAN}^{\circ}}{1.31}$ $\frac{\text{SIGMA}}{.46}$ $\frac{\text{RANGE}}{1.00}$ $\frac{\text{N}}{2.00}$ $\frac{39}{39}$

INCLUDE GRAMMAK

10 = 07418	MEAN	SIGMA	RANGE	N
	1.28	.45	1.80 = 2.00	39
INCLUDE COMPLETE	SENTENCES	, GOOD SENT	ENCE STRUCTURE	
ID = 07419	MEAN	SIGM4	RANGE	N
	1.46	•50	1.00 = 2.00	39
INCLUDE PARAGRAP	HS, TOPIC :	SENTENCES		

	MEAN .	SIGMA	RANGE	N
10 = 07420	1.36	.48	1.48 - 2.88	39

INCLUDE SPECIFIED LENGTH

	MEAN '	SIGMA	RANGE	N
10 = 07421	1.26	.44	1.90 - 2.00	39

DTHER COMPUSITION CRITERIA

	MEAN	SIGMA	RANGE	N
ID = 07422	1.21	. 40	1.00 - 2.00	39

INCLUDE ORGANIZATION, COHERENCE, STRUCTURE, UNITY .

	MEAN	SIGMA	RANGE	Ŋ
10 = 27423	1.51	,50	1.00 - 2.00	39

INCLUDE CONTENT; SUBJECT THAT CHALLENGES, INTERESTS STUDENT

	MEAN	SIGMA	RANGE	N
10 = 37424	1,36	. 48	1.00 - 2.00	39

INCLUDE CREATIVITY, URGINALITY, SELF-EXPRESSION

	MEAN	SIGMA	RANGE	N
10 = 87425	1.21	.40	1.40 - 2.00	39



Table 3.2-Continued

CRITERIA INCLUDE MECHANICS ONLY

ID = 27426 MEAN SIGMA RANGE N 1.21 .40 1.00 - 2.00 39

CRITERIA INCLUDE CONTENT-STRUCTURE

GAMES, FUN DEVICES USED FOR INSTRUCTION, SUCIAL INTERACTION

MEAN SIGMA RANGE N 10 = 07428 1.79 .40 1.00 = 2.00 39

USED AS INSTRUCTIONAL SUPPLEMENTS

MEAN SIGMA RANGE N ID = 37429 1.80 .40 1.00 - 2.00 30

USED FOR PROMOTING SUCIAL INTERACTION, GETTING TO KNOW STUDENTS

MEAN SIGMA RANGE N ID = 37430 1.50 .50 1.00 + 2.00 30

USED RARELY, OCCASIONALLY DURING THE YEAR

MEAN SIGMA RANGE N ID = 27431 1.23 .42 1.00 = 2.00 30

USE'IN ORAL REPORTS, SPEECHES, RECITATION, DEBATE

MEAN SIGMA RANGE N 10 = 07432 1.81 .40 1.00 + 2.00 36

IN ACTING, ROLE-PLAYING, PANTOMIME

MEAN SIGMA RANGE N 10 = 27433 1.53 .50 1.00 = 2.00 36 IN READING ALOUD STORIES, PLAYS, POETRY

	MEAN	SIGMA	RANGE	N
10 = 07434	1.25	.43	1.00 - 2.00	36

IN ART, BULLETIN BUARDS, PUSTERS

	•	MEAN	SIGMA	RANGE	N
ID = 37435		1.19	. 43	1.40 - 2.40	36

OTHER: GAMES, LISTENING STATION

	MEAN	SIGMA	KANGE	N
10 = 07436	1.33	.47	1.00 - 2.00	36

DIFFERENCES BETWEEN CLASSES ACCOUNTED FOR BY SIZE OF CLASS

BY TIME OF DAY

BY DIFFENENT ABILITY LEVELS DUE TO TRACKING OR ABILITY GROUPING

BY DIFFERENCE IN ABILITY LEVEL: SOME CLASSES BRIGHTER THAN OTHER

BY EXTREMES OF ABILITY WITHIN CLASS VERSUS HOMOGENOUS ABILITY

BY DIFFERENCES IN STUDENT MUTIVATION, MATURITY, WORK HABITS, . . COOPERATION

MEAN SIGMA RANGE . N

ID = 27442 1.50 .49 1.00 = 2.00 . 39

BY DIFFERENCES IN BEHAVIOR PROBLEMS, NUMBER OF TROUBLESOME KIDS, ETC.

MEAN SIGMA RANGE N 10 = 07443 1.51 .50 1.00 - 2.00 39

BY DIFFERENCES IN CLASS PERSONALITY, INTERPERSUNAL RELATIONS

BY DIFFERENCES IN TRACHER-STUDENT RELATIONSHIP, TEACHER AFFECT

MEAN SIGMA RANGE N ID = 07445 . 1.00 .27 - 1.00 - 2.00 39

BY DIFFERENCES IN BACKGRUUND, SES, HOME ENVIRONMENT

MEAN SIGMA RANGE N 10 = 07446 1.10 . .30 1.00 - 2.00 39

NO DIFFERENCES, UR CHANCE ACCOUNTS FOR DIFFERENCES

BY SEX AND RACE MAKE-UP

: 5

MEAN SIGMA RANGE · N ID = 27448 → 1.08 .27 1.00 + 2.00 39

OTHER: ROUM IS HUT .; ATTENDANCE PATTERNS, ETC.

10 = 87449 - MEAN SIGNA RANGE N 1.18 .38 1.00 = 2.00 39 SUTDENTS ARE RANDUMLY ASSIGNED TO CLASSES AT THIS SCHOOL

MEAN SIGMA RANGE N ID = 07450 1.72 .45 1.00 = 2.00 39

UNSPECIFIED ADJUSTMENTS; DOES NOT TELL HOW SHE ADJUSTS

MEAN SIGMA RANGE N ID = 27451 1.28 .45 1.00 = 2.00 39

VARIES METHODS, BUT NOT CURRICULUM

#EAN SIGMA RANGE N ID = 07452 1.28 .45 1.80 = 2.00 39

VARIES CURRICULUM, MATERIALS, EMPHASIS, BUT NOT METHODS

VARIES BOTH CURRICULUM AND METHODS

MEAN SIGMA RANGE N ID = 07454 1.15 .36 1.00 = 2.00 39

VARIES STRUCTURE, DISCIPLINE, CONTROL

MEAN SIGMA RANGE N ID = 87455 1.10 .30 1.00 = 2.00 39

OTHER: DUES NOT ADJUST; GET TO ALL WITH BASICS; YOU HAVE TO TRY

MEAN SIGMA RANGE 1. N ID = 07456 1.15 .36 1.00 = 2.00 39

ADJUSTS IN RESPONSE TO ABILITY LEVEL, OR INDIV. DIFF. IN ABILITY ONLY

MEAN SIGMA RANGE N 10 = 07457 1.23 .42 1.00 = 2.00 35 TO CLASS PERSONALITY, INTERESTS, ATTITUDES, EMUTIONAL NEEDS ONLY

MEAN SIGMA RANGE N 10 = 07458 1.11 .32 1.00 + 2.00 35

TO BUTH ABILITY AND PERSUNALITY OF THE CLASS

MEAN SIGMA RANGE · N ID = 07459 1.26 .44 1.00 + 2.00 35

LACK OF PARENTAL ENCOURAGEMENT AND CONCERN

MEAN SIGMA RANGE N 10 = 07460 1.21 .40 1.00 = 2.00 39

HOME PROBLEMS; HOME ENVIRONMENT

MEAN SIGMA RANGE N ID = 37461 1.38 .49 1.80 = 2.80 39

LEARNING DISABILITY, LUM IG, HYPERACTIVE, NON-HEADERS, ETC.

MEAN SIGMA RANGE N ID = 07462 1.26 .44 1.00 = 2.00 39

EMOTIONAL PROBLEMS, ADOLESCENCE, POOR PEER RELATIONSHIPS

MEAN SIGMA RANGE N ID = ₹₹463 1.18 .38 1.00 = 2.00 39

DISCIPLINE, BEHAVIOR PROBLEMS: DISRUPTIVE, ANTAGONISTIC STUDENTS

MEAN SIGMA RANGE N ID = ω7464 1.18 .38 1.60 = 2.00 39

LACK OF INTEREST, MUTIVATION; SOME HAVE GIVEN UP; ALIENATED STUDENTS

MEAN SIGMA RANGE N TD = \$7465 1.36 .48 1.40 - 2.43 39



STUDENT PERSONALITY, OR TEACHER-STUDENT PERSONALITY CONFLICT

RANGE MEAN SIGMA ID = 07466 1.10 .30 39 1.00 - 2.00

RACIAL, ETHNIC, CULTRUAL BACKGROUND AND VALUES

MEAN SIGMA RANGE ID = 37467 1.26 .44 1.00 = 2.30

CLASSRUOM GIVENS: SIZE, TIME OF DAY, AVAILABLE MATERIALS, ETC.

MEAN SIGMA ID = 37468 1.05 .22 1.00 = 2.00

CAN ALMAYS TRY TO DO SOMETHING: JCAN DOJ ATTITUDE

MEAN SIGMA RANGE 10 = 27469 : 1.08 .27 1.00 - 2.00

OTHER: ABSENCE, SCHOOL POLICIES, GET STUCK WITH PROBLEM KIDS, ETC.

MEAN SIGMA RANGE ID = 87470 1.18 .38 1.00 - 2.00

NEED PATIENCE, FURTITUDE

MEAN SIGMA 10 = 07471 1.41 .49 .1.00 # 2.00

NEED SENSE OF HUMOR

MEAN SIGMA RANGE 10 = 074721.31 .46 1.00 - 2.00 .

NEED ENERGY, HEALTH

MEAN SIGMA RANGE ID = 87475 1.23 .42 1.00 - 2.00 NEED HUNESTY, SINCERITY: HE A REAL PERSON

MEAN SIGMA RANGE 10 = 07474.30 1.10 1.00 - 2.00

NEED GUOD. CUNSISTENT. FAIR DISCIPLINE AND CONTROL

MEAN SIGMA RANGE 10 = 07475 1.28 .45 1.00 - 2.00\

UNDERSTANDING, CUNCERN, CARING, INVOLVEMENT W/KIDS, THEIR

PROBLEMS

MEAN SIGMA HANGE ID = 07476 1.44 .50 1.00 - 2.00

LIKE KIDS AND FEACHING; DEVOTION, ENTHUSIAM; DESIRE TO BE THERE

MEAN SIGMA RANGE ID = 37477 ,.49 1.41 1.46 - 2.40

NEED COMMUNICATION SKILLS

MEAN SIGMA RANGE 10 = 374781.10 .30 1.00 - 2.00.

NEED FLEXIBILITY; BE OPEN TO NEW IDEAS, METHODS; BE OPEN-MINDED

MEAN RANGE SIGMA .45 10 = 374791.28 1.00 - 2.00

NEED GUUD KNOHLEDGE UF SUBJECT MATTER

SIGMA MEAN RANGE 10 = 37480 1.54 .50 1.00 - 2.00

NEED GOOD TEACHING SKILLS; ABILITY TO EXPLAIN, PREPARE, MOTIVATE

HEAN SIGMA RANGE 10 = 374811.33 .47 1.44 - 2.00 39

Table 3.2-Continued

* NEED CONCEPT OF APPHUPHIATE TEACHER STUDENT REALTIONSHIP

MEAN SIGMA RANGE N 10 = 07482 1.18 .38 1.20 = 2.00 39

DTHER: SELF-CONTRUL; GOOD JUDGE OF PROPLE; ADEQUATE MATERIALS, ETC.

MEAN SIGMA RANGE N ID = \$7463 1.33 - .47 1.80 = 2,88 39



to ability of classes. For high-ability class am structure of facultives was associated with low achievement, but high student ratings of the teacher.

For low-ability classes, in contrast, it was associated with high achievement, the but low student attitude toward the teacher.

The lack of correspondence between results for the two product measures in English classes was not surprising in view of the lack of general correlation obtained for the achievement measure and student ratings in English. Unlike math, success in English does not appear to go hand-in-hand with liking of the teacher.

Because results with respect to English achievement and student ratings of the teacher bear so little relationship to each other, variables related to the two product measures will be discussed separately in this chapter. Summary tables showing the results will be divided accordingly. Tables 3.3 through 3.6 summarize results with respect to English achievement. Tables 3.7 through 3.11 summarize results with respect to student ratings of the teachers. An example and explanation of how to read the tables is given in chapter 2 on page 17.

Relationships with English Achievement

A total of 73 presage variables were significantly related to achievement in English classes. Several were difficult to interpret and tended to contradict other findings which showed meaningful patterns. The results, however, indicated some potentially useful relationships with respect to teaching strategies, resting and evaluation, management, and teacher characteristics and assumptions about teaching.

Instructional Organization

In English classes, no significant relationships were found between mean class achievement and instructional organization variables describing

teachers' reports of using ability grouping, individualized instruction, or other methods of coping with varying ability levels of students in class. These aspects of instructional management, at least as reported by teachers in our sample, appeared to be less related to student achievement than to student attitude.

Evaluation Practices

Results for evaluation practices are shown in Table 3.3. With respect to testing and evaluation, results supported teachers' preference for use of objective evidence (Variable 06002). The reported use of both teacher-made and prepared tests, as opposed to teacher-made only (07028) was positively associated with achievement. Two other variables relating to testing showed contradictory results and are difficult to interpret (Variables 07040, 07041).

Table 3.3

Variables Related to English Achievement

Variable		Relationship with Achievement
Number	Variable Description	Main Interaction
Evaluation I	ractices	,
06002 Tea	chers report high percentage of grades eased on objective evidence	.
07028 Tea	chers use both teacher-made and prepared ests, as opposed to teacher-made only	+
t	chers report using a standard diagnostic est to assess of dents achievement level t beginning of year	Hi - Lo +
, a	chers report using diagnostic test to ssess student achievement level at the eginning of yearunspecified as to elf-made or standard	« Hi + Lo →

Classroom Management

A generalization supported by the results with respect to management and discipline variables shown in Table 3.4 is that high achievement in our study was associated with teachers' stated preference for formal, more traditional classroom environments. Reports of use of assigned seating (07087) and rules against chewing gum or bringing food to class (07092) were positively related to achievement. The following variables were negatively related to achievement:

- 06080 Teachers agree that teachers should talk to students as they would 'to adults;
- 07152 Teachers do not consider students calling out during class discussion a problem;
- 07091 Teachers mention no fighting, horseplay, or throwing as established class rules; and
- 07126 Teachers mention willingness to try greater student involvement in making and in enforcing class rules.

Variables describing allowance for quiet talk (07090) and posting rules (07115) were differentially related to achievement, according to entering ability of the classes.

Consonant with the picture of the traditional, but effective classroom are variables presenting a picture of a rather demanding teacher. The following variables were associated with high achievement:

- 07104 Teachers' demands that students accept responsibility for makeup work;
- 07205 Teachers' demands that students pay strict attention to instructions; and



07096 Teachers' distinguishing between excused and unexcused absences in accepting late papers.

In addition, results for several variables (07167, 07106, 07195, and 07174) suggest that demandingness is most effective with low-ability classes when it is combined with persistent personal attention.

Table 3.4

Variables Related to English Student Achievement

Variable		Relationship with Achievement
Number	Variable Description	Main Interaction
Classroo	m Management	
07087	Class rules include students must sit in assigned seats	+
07092	Class rules include no gum chewing or bringing food to class	+
06080	Teachers agree that teachers should talk to students just as they would to adults	_
07152	Teachers do not consider students calling out during class discussion a problem	-
07091	Teachers mention no fighting, horseplay, or throwing as established class rules	-
07126	Teachers mention willingness to try greater student involvement in making and in enforcing class rules	_
07090	Class rules allow quiet talk during seatwork, but not disruption	Hi - Lo +
07115	At beginning of year, teachers pass out or post rules or use other visual aids	Hi + Lo -
07104	Students must take responsibility for seeing that work is made up	+

Table 3.4-Continued

Variable			tionship with this chievement
Number	Variable Description	Main Interaction	
Classroo	m Management	-	_
07205	Teachers demand strict attention to directions; react negatively to students who do not or cannot follow them	+	
07096	Teachers distinguish between excused and unexcused absences in accepting papers	+`	
07167	Teachers deal with student not paying attention by calling his/her name		Hi . Lo +
07106	Teachers take some responsibility that students make up work		Hi 0 Lo +
07195	Teachers cope with students who refuse to work by setting up conferences with counselor and/or parents		Hi - Lo +
07174	Teachers deal with students not paying attention by leaving alone, especially if nondisruptive, tired, upset		Hi + Lo -

Teaching Strategies

Table 3.5 summarizes findings for teaching strategies. A number of variables describing specific English teaching strategies were negatively related to achievement. Acting and the playing (07433), review of pronunciation and meaning for spelling words (07379), and reported use of peer tutoring (07399) were all negatively related to achievement. In addition, favorable teacher attitudes toward small group discussion (06078) and special privileges as motivators (06063, 07214) also bore negative relationships. Teachers' listing of punctuation and capitalization as appropriate composition criteria (07416) was positively related to achievement. The use of district-adopted spelling and literature books and/or more advanced enrichment materials (Variables



07277, 07279, 07060) was also generally associated with high achievement, particularly for low-ability students; whereas the reported use of easier, "high-interest" materials (07392, 07278) was negatively related to achievement for both groups.

Few reported practices were associated with high achievement in classes of high-ability students, although several did suggest facilitative effects for low-ability students. The following variables showed contrasting relationships for the two ability groups (negative for highs, but positive for lows):

07277 and 07279 Reported use of the district-adopted texts for spelling

07394 Use of peer tutoring for nonreaders;

07408 Having students read aloud;

07204 Carefully and slowly going over directions; and

07452 Adherence to the same curriculum regardless of ability levels.

Variable 07070 reported checking of comprehension with tests, drill, and board work when presenting new material. This variable showed a positive relation—ship for highs and a negative one for lows.

If teachers' strategies for their English classes are in actuality what they report them to be, then classroom practices may have focused on the remediation and drill needed by low-ability students, but not on more challenging work needed to keep high-ability students.

The remaining variables in the table, involving adjusting instructional approaches (07457), instructional rationale (07410 and 07268), and leaving alone students who do not respond (07162), are less easy to interpret and could represent chance relationships.



Table 3.5

Variables Related to English Achievement

Variable	· · · · · · · · · · · · · · · · · · ·	Relationship with Achievement
Number	Variable Description	Main Interaction
Teaching	Strategies	
07433	Teacher uses acting, role playing, or panto- mime to communicate subject matter	-
07.379	Teachers use following technique for teaching spelling: going over pronunciations and meanings	-
07399	Teachers report the use of peer tutoring in their classes	-
06078	Teachers agree that small group discussions should be used because students learn from peer interaction	•
06063	Teachers report use of special privileges as a motivational strategy	-
07214	Teachers use out-of-class privileges as motivating strategy	-
07416	Teachers list punctuation, capitalization as appropriate composition criteria	+
07277	Teachers use district-adopted literature text	Hi - Lo +
07279	Teachers use district spelling text	Hi - Lo +
07060	Teachers report provision for enrichment materials in class	+
07392	For nonreaders, teachers use special materialshigh interest, low level	-
07278	Teachers use supplementary literature materials easier than adopted text	<u>.</u> .
07394	For nonreaders, teachers use peer tutoring, college tutoring, or buddy system	Hi - Lo +
07408	Teachers have students read aloud in class	Hi - Lo +



Table 3.5-Continued

Variable Number	Variable Description	Relationship with Achievement Main Interaction
Teaching	Strategies	
07204	Teachers use preventive or developmental approach to ensure that students can understand and follow directions	Hi - Lo +
07452	In meeting needs of varying classes, teachers vary methods but not curriculum	Hi - Lo +
0707 0	When presenting new material, teachers report they check comprehension with test, drill exercises, boardwork	Hi + Lo -
07457	Teachers adjust instructional approaches in response to differing ability levels of classes, but not in response to affective differences, personality	
07410	Teachers give following reason for using reading aloud: to ensure that all understand, aid to poor readers	-
07268	Teachers mention problems with differing abilities of students as disadvantage of class discussion	Hi O Lo -
07162	Teachers eventually ignore, leave alone students who never answer when called in	Hi 0 Lo +

Teacher-Characteristics

Table 3.6 shows results with respect to teacher characteristics. Experience in teaching was positively related to achievement, especially among low-ability students (06110, 06111). Teachers' willingness to work with a counselor appeared to be a facilitative characteristic and was associated with high achievement, particularly among low-ability students (07342, 07345, 07347). Teachers' beliefs that ability to organize is an important part of good teaching and that energy and health are important attributes of junior



high school teachers (06041, 07473) were positively related to achievement. Teacher's mention of the ability to do remedial work (06052); good teaching skills (07481); disciplining students for profanity (07237); and good, consistent, fair discipline (07475) as important to good teaching were all associated with low achievement. These results are difficult to explain. Variable 07182, Teachers' attribution of lack of student motivation to home problems, was positively related to achievement.

The negative relationship found between achievement and Variable 07360, Teacher mentions as disadvantage of having a student teacher: teacher loses contact with students, also leaves much room for speculation. It seems plausible, however, that in classes—which were turned—completely over to—the student teachers, the experienced teachers did indeed lose contact with their students, and the student teachers left in charge were less able to effect learning gains in the students.

Results for nine variables indicated opposite relationships for highversus low-ability classes. Variables positively related to achievement in high-ability classes but negatively related in low-ability classes were:

- 06029 Teachers think that parents are best used as tutors at home;
- 06056 Teachers believe frequent praise is important to good teaching;
- 06074 Teachers agree that teaching should be oriented toward helping students do well on normed tests;
- 06089 Teachers agree that one should expect students to forget much that is told them; and
- 07425 Teachers list creativity, originality, self-expression as criteria for composition.

Four other variables describing sympathetic views of unmotivated students (07178, 07180), appropriate composition criteria (07424), and teachers' per-

ceptions of differences between classes (07445) were associated with low achievement in high-ability classes but high achievement in low-ability classes. Most of the nine interaction effects suggest that effective teachers have realistic expectations and perceptions of their students.

Table 3.6

Variables Related to English Achievement

Variabl Number		Relationship with Achievement Main Interaction
Teacher	Characteristics	
06110	Teachers' total years of experience teaching	+ Hi O Lo + .
06111	Teachers' total years of experience teaching at junior high level	. Hi O Lo +
07342	Teachers report that they work with coun- selor as little as possible or not at all	-
07345	Teachers work with counselor to get advice, background information, test data on students	Hi - Lo +
07347	Teachers work with counselor in conferences with students and parents	Hi - Lo +
06041	Teachers believe ability to organize classroom is an important part of good teaching	+
07473	Teachers list energy and health as a most important attribute of effective junior high teachers	+
07237	Teacher mentions profanity as behavior requiring discipline	-
06052	Teachers believe that the ability to do- remedial work with slow learners is important to good teaching	_
07481	Teachers list good teaching skills, ability to explain, to prepare, motivate as most important attribute of effective junior high teachers	-

Table 3.6-Continued

Variable			tionship with
Number	Variable Description		Interaction
Teacher	Characteristics ·		
07475	Teachers list good, consistent, fair discipline and control as most important attribute of effective junior high teachers	-	
. 07182	Teachers attribute lack of student motivation to home problems	+	
07360	Teachers mention as disadvantage of having a student teacher: teachers lose contact with students	-	•
06029	Teachers think that parents are best used as tutors at home		Hi + Lo -
06056	Teachers believe frequent praise is important to good teaching		Hi + Lo -
C6074	Teachers agree that teaching should be oriented toward helping students do well on normed tests		Hi + Lo -
06089	Teachers agree that one should expect students to forget much that is told them		Hi + Lo -
07425	Teachers list creativity, originality, self-expression as criteria for composition		Hi + Lo -
0 ∱178	Teachers' view of unmotivated student: poor self-concept, lack of confidence, fear of failure		Hi - Lo +
07180	Teachers attribute lack of students' motivation to inappropriate, irrelevant materials		Hi - Lo +
07424	Teachers list subject that challenges and interests students as appropriate composition criteria		Hi - Lo +



Table 3.6-Continued

Variable			tionship with chievement
Number	Variable Description	Main	Interaction
Teacher	Characteristics	1	7
07445	Teachers account for differences between observed sections: by differences between teacher/student affective relationships	,	Hi - Lo +

Relationships with Student Attitudes

More variables (III) were related to student ratings of English teachers than to achievement in English classes. While not all of these affective outcomes are interpretable, a number of clear-cut relationships emerged with respect to teaching strategies, management, evaluation, and teacher characteristics and assumptions.

Instructional Organization

Findings for instructional organization are summarized in Table 3.7. Fifteen significantly related variables support the generalization that students had positive attitudes toward teachers who reported that they coped with different ability levels in classes by some form of individualization and, to a lesser extent, by ability grouping. Variables describing individualizing by differential testing and grading, differing expectations of students, self-pacing and contracts, and ability grouping based on diagnostic tests or teacher observation and assessment were all associated with positive student ratings of teachers (See Variables 07018, 07024, 07019, 07112, 07007, 07010, 07013, 07012). In contrast, variables describing the use of neither grouping nor individualization and teaching to the middle ability level of the class were related to negative student ratings of teachers (07026, 07008). It should be noted, however, that ability grouping based on unspecified (and



possibly subjective) criteria (07014), reports of teachers' targeting more questions to brighter or slower students (07272), and determination of rules and procedures by ability level of classes (07110) were also associated with negative student affect. Three other variables (07017, 07021, 07053) resulted in interactions which indicated that ability grouping may be less popular among high-mean ability classes than among low-mean ability classes, but such relationships were not strongly supported by other variables.

Table 3.7

Variables Related to English Student Attitudes

Variable	•	, Relationship with Attitude
Number	Variable Description	Main Interaction
Instruct	ional Organization .	
07018	Teachers report they individualize instruction	+
07024	Teachers individualize only (do not group)	+
07019	Teachers individualize by self-paced work, contracts, learning stations	+
07112	Teachers' academic expectations differ for different classes	+
6 7007	Teachers cope with differing ability levels by differential testing, grading, expectations	+
07010	Teachers cope with ability level problem in class rather than avoiding problem	+ '
07013	When teachers use ability groups, groups based on observation, assessment of work, talk with students	· •
07012	When teachers use ability groups, groups based on diagnostic tests, CAT scores	9 .
07026	Teachers neither group nor individualize	- .

Table 3.7-Continued

Variable Number	Variable Description	Attitude Main Interaction
Instruct	ional Organization	
07008	Teachers cope with differing ability levels by teaching to the middle group or ignoring problem	·
07014	When teachers use ability groups, groups based on ability (no other response given)	-
07272	Teachers report fargeting more questions to brighter or slower students	-
07110	Rules and procedures determined by ability level of classes	<u>.</u>
07017	Teachers report more attention given to high-ability groups in their classes.	Hi - Lo +
07021	Téachers use ability groups with different assignments	Hi - Lo 0
07053	Teachers provide different level texts, reading groups for students who need remodiation or enrichment	Hi - Lo 0

Evaluation Practices

Somewhat more consistent were results with respect to evaluation and grading, shown in Table 3.8. Variable 06002, Teachers report high percentage of grades based on objective evidence, was associated with high student ratings of teachers among high-ability classes. However, there was no significant relationship among lower-ability classes. Variable 06003 describing a high percentage of subjective grades was associated with low student ratings of teachers among high-ability classes. These results were



supported by negative relationships found for three other variables describing subjective evaluation:

06026 Teachers measure their succe s by well-behaved classes;

06021 Teachers measure success by students appearing to understand the material; and

06073 Teachers measure their success by students beginning work immediate.

Results for other variables describing evaluation strategies were less clear. The following were associated with low student ratings of the teacher:

06105 Teacher's belief that high grades reinforce effort;

06016 Opinions that in evaluating past records, grades are more valuable than achievement scores;

07345 Reports of evaluation of subgroups within classes separately; and 07345 Teachers work with counselor to get advice, background information, test data on students.

Table 3.8

Variables Related to English Student Attitudes

Variable Number	Variable Lescription	Relationship with Attitude Main Interaction
Evaluati	on Practices	- •
06002 、	Teachers report high percentage of grades based on objective evidence	+ Hi + 50 0
06003	Teache. report high percentage of grades based on subjective evidence	- H: - Lo 0



Table 3.8-Continued

Variable	Variable Description	Relationship with Attituce	
Number		Main Interact	ion
Evaluati	on Practices	•	
06026	Teachers measure their success by well-behaved classes	- -	
06021	Teachers measure their success by students appearing to understand the material	-	
06023	Teachers measure their success by students beginning work immediately	_3	•
06105	Teachers agree that high grades reinforce effort, making students work harder	-	£ .
06016	In evaluating student's past record, teachers think grades are more valuable than achievement scores or more subjective	, , , , , , , , , , , , , , , , , , ,	, B
•,	data	- ,	
07289	Teachers evaluate subgroups within class separately		•
07345	Teachers work with counselor to get advice, background information, test data on students	.	

Classroom Management

Results with respect to classroom management are shown in Table 3.9. They allow us to make no simple two-word description of the kind of English teachers who were well-liked in our sample. Being strict at the beginning of the year and loosening up later (07114) was a practice associated with positive student attitude. Two variables relating to posting of rules and consequences at the beginning of the year, however, resulted in contradictory indications (07118, 07120). Preference for fixed seating (07138) was associated with positive attitudes among high-ability classes, but no relationship was found for low-ability groups.



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Students appeared to respond negatively to teachers who were very concerned with maintaining formal teacher roles. Variable 07482, Teacher lists concept of appropriate teacher/student relationships as most important attribute of effective junior high school teachers, and Variable 07245, Teacher believes that to establish credibility one must maintain teacher role, were both associated with low student ratings of the teacher.

Variables describing firm procedural rules for paper work and time limits for turning in work (07095, 07100, and 07103) were generally associated with positive student attitudes, but Variable 07104, Students must take responsibility for seeing that work is made up, was related negatively to student ratings of the teacher. Teachers' reports of providing notes on different students for substitute teachers (07143) was positively related to student ratings of the teacher, and teachers' mention of the limitations of substitutes (07144) was negatively related to student attitude.

Variables with respect to discipline were even less coherent. Positive relationships with student attitudes were found for:

- 07093 Class rules demanding mutual courtesy;
- 07152 Teachers' opinions that discipline problems are due to laxity in rules;
- 06005 Call outs in class are not a problem; and
- 07240 Mention of fighting, destruction of property as misbehaviors requiring discipline.

Teachers' mention of lack of respect, consideration for teacher or other students as misbehavior requiring discipline (07238) was related to positive attitudes among high-ability classes, but not among low-ability classes.

Negative relationships with student ratings of the teacher were found for the following variables:



- 07239 Teacher opinion that constant talk is a misbehavior requiring discipline;
- 07235 Reports of use of a step-by-step process in handling disruptive students;
- 07090 Allowance of quiet talk during seatwork;
- 07146 Reports of problems with students calling out answers;
- 07231 Referring disruptive students to a counselor for conferences; and
- 07233 Sending disruptive students to detention.

Some of the findings seem almost contradictory (07239 and 07090, for example). Overall results shed little light on the relationship between student attitude and strategies teachers might use with inattentive, disruptive, or uncooperative students (07190, 07195, 07198, 07148, 07170, 0.172, 07173).

Table 3.9

Variables Related to English Student Attitudes

Variable Number	Variable Description	Relationship with Attitude Main Interaction
Classroo	m Management	
07114	At beginning of year, teachers are strict, loosen up later	+
07118	At beginning of year, teachers announce rules and the consequences of breaking them	-
07120	At beginning of year, teachers use informal approach, no formal presentation of rules	-
07138	Teachers believe personal development, peer relations favor fixed seating	Hi + Lo O
07482	Teachers list concept of appropriate teacher-student relationships as most important attribute of effective junior high teachers	_

Table 3.9-Continued

Variable			Relationship with Attitude		
Number	Variable Description	Main	Interaction		
Classroom	m Management		,		
07245	Teachers believe that to establish credibility one must maintain teacher role; know subject; be correct in manner	_			
07095	Teachers have rules for turning in homework and seatwork		Hi + Lo 0		
07100	Teachers report procedural rules for paper work	+			
07103	Teachers set a time limit for turning in missed work	+			
07104	Students must take responsibility for seeing that work is made up		•		
07143	Teachers provide notes on reliable and problem students for substitute teachers	+	•		
. 07 144	Teachers mention limitations of substitutes; won't let them do some things	-			
07093	Class rules include expect mutual respect, courtesy	• •	•		
07152	Teachers do not consider students calling out during class discussion a problem	+			
06005	Teachers believe that discipline problems are due to laxity in enforcing rules	+			
Ŏ7240	Teachers mention roughhousing, fighting, throwing, destruction of property as misbehavior requiring discipline	+	• .		
07238	Teacher mentions lack of respect, consideration for teacher, other students as misbehavior requiring discipline		Hi + Lo 0		
07239	Teachers mention constant talk, interrupting, calling out as misbehavior requiring discipline	-			
07235	Teachers have step-by-step process for handling disruptive students	-			



Table 3.9-Continued

Variable		Relationship with Attitude	
Number	Variable Description	Main Interaction	<u>on</u>
Classroom	m Management		
07090	Class rules allow quiet talk during seatwork, but not disruption	-	
07146	Teachers report problems with students waving hands, calling cat answers.	-	
	were asked how they handled .tive students:		
07231	Teachers handle disruptive students by referring to counselor, conference with parent, counselor, student	F -	
07233	Teachers handle disruptive students by sending to detention	<u>-</u>	
07190	Teachers cope with students who refuse to work by nag, threaten, fuss, keep at them, praise	Hi - Lo ())
07195	Teachers cope with students who refuse to work by setting up conferences with counselor and/or parents	+	i
07198	Teachers cope with students who refuse to work by discussing problem with courselor or other teachers	Hi - Lo +	.
07148	Teachers respond to gall outs by telling them to raise hands, to stop, take turns.	Hi- Lo ()
	were asked how they dealt with		
07170	Telling them to pay attention; get to work	+	
07172	Discussing problem with the student	Hi - Lo ()
07173	Seeking outside help: parent, counselor, office	-	



Teaching Strategies

Table 3.10 summarizes results for variables describing teaching strategies. Some teaching strategies clearly related to positive student attitude toward the teacher were peer tutoring (06083, 07399, 07404), role playing (07433), teachers' written comments on students' papers (06066), and teachers' going to students' desks during seatwork (07276). Reported high frequencies of class discussions (07256) and teachers' assumptions that students learn from others during class discussions or small group discussion (07257 and 06078) were both associated with low student ratings of the teacher. Teachers' citing of socialization as an advantage of class discussion (07262) and their citing of lack of total participation as a disadvantage of class discussion (97264) were both associated with positive accident attitudes. Some of these findings suggest that well-liked teachers have realistic attitudes toward peer interactions in their classes.

Spelling appeared to be an unpopular topic with students. Teachers' listing of spelling as an appropriate composition criterion (07417) and teachers' reports that they concentrate on spelling and vocabulary (07291) were both related negatively to the student ratings of the teacher. Reports of reading aloud for drill and pronunciation practices (07414) were also unpopular. Reports of use of audio-visual aids for nonreaders (07396) were related to positive attitudes.

Several statistically significant variables relating to teaching strategies failed to fall into clearly interpretable patterns: 07072, 07073, 07112, 07156, 07164, 07307, 07317, 07398, 07419, and 07458.



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Variable		Relationship with Attitude
Number	Variable Description	Main Interaction
Teaching	Strategies	•
06083	Teachers agree that letting faster students help slower ones is a good strategy	+
07399	Teachers report the use of peer tutoring in their classes	, +
07404	Teachers report disadvantage of peer tutoring: effectiveness is limited by tutor's skills and knowledge	+
07433	Teachers use acting, role playing, or pantomime to communicate subject matter	· •
06066	Teachers report using written comments on students' papers as motivation	+
07276	Teachers go to students during seatwork most of the time; seldom stay at teacher's desk	+
07256	Teachers report high frequency of class discussions	, 15 1
07257.	Teachers feel advantages of class discussions include students learn by hearing others; slower ones learn from brighter	
06978	Teachers agree that small group discussions should be used because students learn from peer interaction	Hi - Lo 0
07262	Teachers feel advantages of class discussions include students establish identity, gain confidence	+
07264	Teachers feel disadvantages of class discussion include many don't or won't participate	+
07417	Teachers list spelling as appropriate composition criteria	-

Table 3.10-Continued

Variable	:		Relationship with Attitude	
Number	Variable Description	Main	Interaction	
Teaching	Strategies			
07291	Teachers concentrate especially on spelling, vocabulary objectives	-		
6 07414	Teachers give following reason for reading aloud: as teaching tool; gives practice; students learn pronunciation			
07396	For nonreaders, teachers use audio-visual aids	+		
07072	When presenting new material, teachers report use of private contacts; work with students individually	•	Hi O Lo -	
07073	When presenting new material, teachers report active student participation: take notes, work problems with teacher		Hi + Lo -	
07112	Teachers' academic expectations differ for different classes	+	~	
07156	Teachers report dealing with students who never volunteer by leaving them alone especially if tired, shy		Hi O Lo -	
07164	Teachers deal with students who never answer when called on by avoiding embarrassing student; put him at ease	+		
07303	Teachers concentrate on certain skills - because important for other classes, high school, college	-		
07317	Teachers assign less importance to certain objectives because memorizing not as important as understanding concepts		Hi - Lo + .	
07398 .	Teachers report some active strategy for remediating reading problems	-		
07419	Teachers list complete sentences, good sentence structure as appropriate composition criteria		Hi - Lo +	



Table 3.10-Continued

Variable Number

Variable Description

Relationship with Attitude Main Interaction

Teaching Strategies

07438 Teachers adjust instructional practices in response to differing class personalities, interest, attitudes, emotional needs but not in response to ability level differences

Hi + Lo -

Teacher Characteristics

Table 3.11 summarizes results for teacher characteristics and student attitudes. A number of the teachers' assumptions about good teaching were significantly related to student attitudes toward teachers in English classes. Well-liked teachers emphasized the importance of the ability to motivate, explain, and do remedial work (06053, 07481, 06052). Teachers' agreement that "practice makes perfect" sums up learning (06090) was also associated with high mean class student rating of the teacher. Teachers' agreement with the following statements was related to low student ratings of the teacher:

06104 It is better to underexplain than overexplain;

06077 Some students ask too many questions;

06089 One should expect students to forget much that is told them; and

07224 Good social relationship between students and teacher is important because students feel more comfortable, receptive.

Significant relationships with student attitude were found for two variables describing teacher attitudes towards busing. The opinion that busing downgrades education and hurts capable kids (07238) was associated with negative student attitude towards the teacher, but teachers' concern for bused students' angry feelings was associated with positive student affect (07332).



The latter concern suggests greater empathy and willingness to see the situation from the students' point of view. Similar implications were suggested by results for two variables describing how teachers accounted for differences between their classes. Teachers who took into account the time of day and its effect on students (07438) were rated high by their students. Teachers who focused on ability levels of students (07441) were rated low. These findings may reflect greater student liking of teachers who are able to see things from the students' point of view.

Teachers' level of graduate education (06108) and teachers' membership in the National Education Association (06114) were associated with low student ratings. No significant relationship was found, however, for teachers' total years of teaching experience (06110) and student attitude.

Teachers were asked to name those things about which they felt teachers can do little. Teachers' mention of learning disabilities (07462) and of student emotional problems or poor peer relationships (07463) in reply to this question were both associated with low student ratings. Teachers who expressed a "can do" attitude, saying that they can always try to do something about student problems (07469), were associated with high student ratings of the teacher.

Some teacher characteristics were related to student attitudes among high-ability classes, but not among low-ability classes. Teachers who attributed lack of students' motivation to inappropriate materials (07180) and teachers who cited loss of student contact as a disadvantage of having a student teacher (07360) were rated low by high-ability students. Teachers' opinions that student teachers were time consuming and a lot of work (07358) was negatively related to student attitude for both ability levels.

Table 3.11

Variables Rélated to English Student Attitudes

Väriable	:	Rela	tionship with Attitude
Number	Variable Description	Main	Interaction
Teacher	Characteristics		•
06053	Teachers believe ability to motivate students to enjoy schoolwork is important to good teaching	+	·
07481	Teachers list good teaching skills, ability to explain, to prepare, motivate as most important attribute of effective junior high teachers		
06052	Teachers believe that the ability to do remedial work with slow learners is important to good teaching	+	•
06090	Teachers agree that "practice makes perfect" sums up learning	+	•
06104	Teachers agree that it is better to err by underexplaining than by overexplaining		
06077	Teachers agree that some students ask too many questions	-	
06089	Teachers agree that one should expect students to forget much that is told them	· .	
07224	Teachers feel good social relationship between students and teachers important because students feel more comfortable, receptive	-	· .
07328	Teachers see as disadvantages of busing: downgrades education; hurts capable kids		
07332	Teachers see as disadvantages to busing: bused kids feel angry, resentful; hold negative attitudes	<i>9</i>	2





Table 3.11-Continued

 Variabl	e	Relationship with <u>Attitude</u>
Number	Variable Description	Main Interaction
Teacher	Characteristics	
	s were asked to describe the differences en the two classes in which we observed:	ζ ,
074 ² 38	Teachers account for differences between observed sections by time of day	+
07441	Teachers account for differences between observed sections by extremes of ability within classes	-
06108	Teachers' level of graduate education	-
06114	Teachers' membership in N.E.A.	-
06110	Teachers' total years of teaching experience	•
07462	Teachers believe that they can do little about learning disabilities, low IQ, hyperactive, nonreaders, etc.	·
07463	Teachers believe that they can do little about emotional problems, adolescence, poor peer relationships	-
07469	Teachers believe that they can always try to do something about student problems; "can do" attitude	, <i>)</i> +
07180	Teachers attribute lack of students' motivation to inappropriate, irrelevant materials	Hi - Lo 0
07360	Teachers mention as disadvantage of having a student teacher: teachers lose contact with students	Hi - Lo 0
07358	Teachers mention as disadvantage to having a student teacher: student teachers are time consuming, a lot of work	». ••
	•	· ,





Uninterpretable Findings

The following variables were statistically significant, but were not interpretable or useful. In most cases, these were "other," answers or "doesn't say" categories. Other variables were too isolated or too ambiguous to be meaningful. For the description of these variables, see Volumes II and III and Appendix A of this report: 06006, 07009, 07023, 07032, 07082, 07108, 07145, 07158, 07187, 07189, 07199, 07254, 07271, 07274, 07330, 07348, 07415, 07437, and 07451.

Summary

Results for questionnaire and interview data for English classes were less clear than those for math classes. Of the 184 significantly related variables a relatively small proportion were clearly meaningful and useful. Others appeared to have been chance findings or were ambiguous, isolated, or contradictory. Consideration of possible factors contributing to poor English results is included in chapter 4 of this report.

Some generalizations were possible from the English class findings, however. First, in terms of achievement, different relationships were found for high— and low—ability classes. Some teacher characteristics and self-reported teaching practices which were effective with one ability group were not effective with the other. Second, student attitude toward English teachers was not directly related to achievement gains in the class. Characteristics of academically effective teachers were often very different from characteristics of well—liked ones. In general, academically effective English teachers presented themselves as preferring fairly traditional, structured class environments and curricula. Well—liked teachers were somewhat less formal and traditional, more likely to say they favor use of peer tutoring, individualized instruction, role playing, and active, informal teaching



style. However, many of the student attitude findings were inconsistent or difficult to interpret, allowing few clear conclusions about well-liked English teachers.

CHAPTER 4

SUMMARY AND DISCUSSION

This report presents relationships between variables measured by a teacher questionnaire and interview and two outcome measures of the Texas Junior High School Study. Chapter I described the background and methodology of the study. In chapter 2 we presented the teacher questionnaire and interview results with respect to math teachers. Chapter 3 presented the results for English teachers. In this chapter we will summarize and discuss the teacher questionnaire and interview data. In the first section of the chapter, we will briefly review the methodology of the study as a whole. In the second section, we will summarize and evaluate the questionnaire and interview results.

Background and Methodology

The Texas Junior High School Study was conducted by the Correlates of Effective Teaching Program at The University of Texas Research and Development Center for Teacher Education. The primary emphasis of this study was the investigation of process-outcome relationships in 136 junior high school math and English classes. The process-outcome results have been previously reported (Evertson et al., Note 3).

A total of 68 teachers (39 English and 29 math) were observed in nine of the 11 junior high schools in a large urban school district. Two sections were observed for each teacher. Two observers alternated visits to each of these classes, for an average of 20 1-hour observations throughout the school year 1974-75. During their visits the observers collected both high- and low-inference data on classroom processes. At the end of the year, teachers responded to a questionnaire and participated in an interview focus-

ing on presage variables such as teachers' beliefs, expectations, assumptions about teaching, and self-reports of instructional practices.

Two outcome measures were used in this study. The first was an achievement test designed to reflect the subject matter taught in the observed class-rooms. Students' scores on the math and English subtests of the California Achievement Test given in the spring of the preceding school year were used to assess entering ability. The second outcome measure was Student Ratings of Teachers, completed by the students at the end of the school year. These two outcome measures enabled us to assess teaching effectiveness in both cognitive and affective terms.

The class was used as the unit of analysis for reporting of all results. When data were collected for individual students, all of the available scores were averaged for each of the 136 classes. Tests of presage—and process—outcome relationships were conducted v.ing linear regression equations for each of the potentially predictive teacher or classroom variables. The equations tested the degree of simple relationship of the variable to achievement gain or student ratings of teachers, and showed the degree of the variable's interaction with initial student ability.

For a more extensive discussion of the background of this study, characteristics of the sample, or other reports using this data base, see chapter 1.

Summary of Results

Considered as a whole, the findings resulting from the teacher questionnaire and interview data were not consistently meaningful and useful. Interpretation of the 386 statistically significant variables was made very difficult by contradictions, isolated findings, interactions with ability levels of
classes, some ambiguous questions, and some even more ambiguous responses.
While some limitations were inherent in the teacher self-report format, others



could be attributed to weaknesses in the procedures and instruments used in gathering and transforming the data. A number of questionnaire and interview questions were poorly chosen or ambiguously worded. In addition, in order to reduce lengthy teacher interviews to manageable units of information, interview data were subjected to several transformations. Information may have been lost or obscured as interviewers condensed teachers' responses to take notes (no tape recorders were used), or as responses were later analyzed and categorized to produce a response coding system for scoring these responses.

Despite these recognized limitations, the questionnaire and interview study resulted in a number of clear findings. In this section we will summarize what our results have to say about the characteristics and self-reported teaching practices of "good" junior high school teachers, with respect to both students' achievement and students' attitudes toward teachers. First we will summarize the results for math teachers, then we will discuss the results for English teachers. We will also consider differences in the results with respect to ability levels of classes for both subject areas. Finally, we will assess the extent to which these presage findings compare with and/or add to previously reported results obtained with the process measures in this study.

Findings for Mathematics Teachers

Linear regression analysis of the 598 questionnaire and interview variables for math teachers resulted in 87 variables significantly related to math achievement and 115 variables significantly related to student attitudes toward teachers. There was a relatively high correspondence between results with respect to the two product measures (achievement and student attitude) in the math classes. Presage variables associated with high achievement were never also associated with negative student attitudes toward teachers in our



math sample: Teachers having high average gains in math achievement were also rated high in generalized likability by their students. A plausible interpretation of this trend is that students recognize the goals of mathematics study and respond positively to those teachers who help them meet those goals.

In general, results for both achievement and attitude measures indicated that successful math teachers are likely to voice commitments to a structured, whole-class, teacher- and textbook-centered approach. Results clearly did not support the use of ability grouping, small group instruction, or peer tutoring. Results did support the use of a "no frills" program featuring regular textbooks and homework. Effective math teachers reported self-confidence and self-reliance with respect to classroom control and behavioral problems. They reported that they accept personal responsibility for management and discipline in their classes. They indicated that they communicate rules and clear expectations to their students, and that they enforce due dates for student work.

Effective math teachers in our sample also reported they were self-reliant diagnosticians, and saw themselves as objective evaluators and graders. They reported using teacher-made or commercial instruments to diagnose student learning problems and progress. They did not favor reliance on subjective criteria or opinions of other teachers, counselors, or parents.

Math teachers who indicated that they valued affective relationships with students, and teachers who emphasized trust, caring, and affective objectives of teaching, were likely to be well-esteemed by their students. This general trend seemed reasonable but was not related to achievement results. Teachers' expressed willingness to work with counselors was also related to student liking of the teacher, but not particularly related to achievement.



Effective teachers expressed realistic attitudes and expectations about parents' roles. They said they did not rely on parents' tutoring students, and they said they viewed the most important parent role as that of providing a warm, supportive home atmosphere.

Math teachers with more progress toward a graduate degree appeared to be less effective in producing achievement gains among their students. Improperly placed or discontented professionals may see graduate study as a way out of the classroom. At any rate, it appears to be associated with lessened commitment to or effectiveness in producing students' learning in math.

Findings for English Teachers

Multiple-regression analysis of the questionnaire and interview variables for English teachers resulted in 73 variables significantly related to achievement in English classes, and 111 variables significantly related to student liking of the teacher. In general, results for English classes were harder to interpret than those for math classes. One reason for this difference is that in English classes, the protest (CAT) accounted for an extremely high proportion (85%) of the variance on the posttest. Students' success on the achievement test appeared to depend more on students' background than on learning in the English classroom. Perhaps this fact was not surprising considering the wide range of entering ability of students in the study. Many of the students were not native English speakers. Another interpretation is that our English achievement test may have failed to measure what was actually taught in many classes.

The English data were further complicated by the presence of a large number of interaction effects, particularly with respect to achievement. Over a half of the 73 variables significantly related to achievement were differentially related with respect to mean entering ability of classes. This pattern



of results itself has significance: Teacher characteristics or teaching practices which appear to "work" with high-ability classes do not necessarily "work" for low-ability classes. Effective English instruction appears to vary more with ability levels of students, than does effective math instruction.

Another generalization clear from the English data is that in English classes, liking of the teacher does not seem to depend on academic success in the class. There appeared to be little correspondence between variables related to cognitive and affective measures. A number of variables describing teachers' attitudes and practices showed clearly contrasting relationships with achievement and student liking of the teacher. Such lack of correspondence may reflect confusion about the goals and purposes of English instruction. Certainly, English curriculum varies much more than does math curriculum. There is often little consensus, even among teachers within a single school; a wide range of activities may be justified as legitimate parts of an English class. Students enjoy and respond positively to many activities and teachers, without respect to whether they help in passing standardized exams.

Because of the lack of correspondence between cognitive and affective measures, we will describe "good" English teachers in terms of two separate categories: those that appear to effect achievement gains among their students and those that are well-liked by their students. In general, effective English teachers (in terms of achievement) are likely to express a fairly traditional orientation. They reported using a whole-class approach and district-adopted textbooks. They said they stress punctuation and capitalization in student papers. They do not report using very much peer tutoring, small class discussions, acting, or role-playing in their classes. They said they prefer structured classroom environments with assigned seating and rules



against bringing food or gum to class. They reported being fairly demanding with respect to students' paying attention to instructions and making up missed work. Like effective math teachers, they reported that they stress the importance of objective evidence in testing and evaluation of students. They indicated a willingness to work with school counselors when necessary. Experience in teaching was positively related to achievement, especially among low-ability students.

The picture that our results gave us of well-liked English teachers was very different than that for teachers with high-achieving students. Well-liked teachers were somewhat less formal and traditional. They reported using some peer tutoring and role-playing in their classes, and they said they do not stress a lot of spelling activities and objectives. They saw their role as teachers as very active. They said they were not very concerned with maintaining formal or "proper" teacher roles in the class. They reported they used some form of individualizing, with different assignments and expectations to cope with varying student ability in their classes. They stressed the use of objective criteria for evaluation, especially among high-ability classes. Progress towards a graduate degree was negatively related to student attitude toward teachers.

Interactions With Ability Levels of Classes

The number and nature of interactions with ability levels of classes were very different when results for math classes and English classes were compared. As noted previously, teaching objectives and strategies of effective teachers appeared to vary more with ability levels of students in English classes than in math classes. However, there were some interesting commonalities and contrasts.



Interactions with respect to the English data showed that when highability and low-ability classes were compared, effective teachers of lowability classes were more likely to report the use of district-adopted textbooks, peer tutoring, more relaxed classroom atmosphere, working with counselors, and a "team" faculty structure. One important pattern was that in low-ability classes, students appeared to benefit more from teachers' persistence in dealing with students who were nonparticipants or nonworkers. pattern was in direct contrast to results with math classes. In lower-ability math classes, variables describing persistent teacher pressure on nonworkers and nonparticipants were related to low achievement. In addition, in lowability math classes reported high teacher expectations and high pressure situations were associated with negative student ratings of teachers. trends may be related to the high incidence of "math anxiety" among lowerability students. One commonality between English and math interactions was the importance of reports of using district-adopted textbooks with students in lower-ability classes.

Comparison of Presage-outcome Results with Process-outcome Results

In general, results obtained for the questionnaire and interview data were consistent and supportive of those found with the process measures in the study (Evertson et al., Note 3). This general consistency lends credence to the teacher self-reports of instructional practices in the questionnaire and interview. For example, both the process-product and presage-product results for math classes supported a whole-class approach, a structured, task-oriented environment, and teachers who were active and dominant. In both sets of results, there was a relatively high correspondence between variables related to achievement and to student liking of the teacher in that classroom. Both sets of data indicated that in low-ability math classes, students liked and



benefited from a more relaxed classroom atmosphere than in high-ability classes.

Comparison of process-product and presage-product findings in English classes resulted in less clear patterns, but some overall consistency. Both sets of data suggested that effective English teachers used different patterns of teaching with high-ability versus low-ability classes. Both showed relatively little correspondence between cognitive and affective measures, with students liking teacher characteristics and teaching strategies not always associated with achievement gains.

In comparing results achieved with the process measures and the presage measures, it became clear that the two approaches, well-used, are complementary. The process-product approach yielded many specific findings not reliably investigated with the presage-product approach. On the other hand, the presage-product approach resulted in some significant patterns of findings not obvious from the process-product data. For example, significant results were obtained for a number of questionnaire and interview variables relating to teachers' attitudes toward and contacts with school counselors, teachers, and parents of students. Process measures probably would provide little evidence concerning these areas. Process measures might also miss some aspects of teachers' strategies for coping with nonworkers. Another area in which significant patterns of results were found with the presage data and teacher self-reports was that of diagnosing learning problems, evaluating student progress, and grading. Some, but not all, of the potentially important information in this area would be accessible by process instruments. Presage variables relating to such teacher characteristics as years of experience and graduate training, and teachers' attitudes toward their affective relation-



ships with students also contributed some information which would have been missed had only process measures been relied upon.

On the other hand, a large number of the questionnaire and interview variables described teaching practices more accurately measured by the process approach: instructional organization, presentation and enforcement of rules, and the nature and number of teacher-student interactions in class. Where discrepancies exist between process-product and presage-product findings for specific classroom practices, the process-product results are presumably more reliable. Some discrepancies might be expected and explained by lack of teacher awareness and/or objectivity in assessing classroom events. Results of this study, however, lend some support for confidence in the general accuracy of teacher self-reports.

Implications for Teacher Research

As discussed in chapter I of this report, a long history of educational research has proven that research on presage and teacher self-report variables is an inadequate approach to the study of teaching. However, results obtained with the questionnaire and interview in this study indicate that presage measures may be used fruitfully in conjunction with other measures of classroom process.

Taking into account results reported herein, the following seven aspects of teaching are recommended for further study with presage-product approaches and (where applicable) process-product strategies. Each area was selected for recommendation because it met two criteria: First, it was an aspect of teaching for which significant presage-product relationships were found with the questionnaire and interview in this study, and second, it encompasses teacher characteristics or teaching practices not always easily assessed through direct observation.



- 1. Teacher contacts with and attitudes toward school counselors, principals, other teachers in the school, and parents. Teachers' reliance on school counselors and on parents was significantly related to one or both of the product measures in both math and English classes. The significance of team faculty structures encouraging teacher-to-teacher cooperation appeared to vary with the ability level of classes. Teachers' contact with principals was not investigated in this study, but probably should have been. Information about all such teacher contacts would be difficult to obtain by direct observation.
- 2. Teachers' attitudes toward and strategies for dealing with nonworkers and nonparticipants. A number of variables related to this aspect of teaching were significantly related to one or both of the product measures in both math and English. In both subject areas, ability levels of classes appeared to be a significant factor in this respect. While some aspects of these teaching behaviors could be measured by classroom observation, others could not.
- 3. Evaluating and grading students and diagnosing learning problems. Significant relationships were found for both math and English classes in this area. While some aspects of this teaching activity can be assessed through observation, others cannot.
- 4. Objectives of teaching and selection criteria. Several related variables were found to be significant in both math and English classes. In English classes, variables related to composition criteria (reflections of teaching objectives) were found to be differentially significant according to entering ability of class.
- 5. <u>Curriculum materials used</u>. Use of district-adopted textbooks appeared to be a ignificant factor in both math and English classes. This area of teaching is most easily investigated through teacher self-reports.



- 6. Teacher characteristics such as teaching experience and graduate education. Some interesting relationships were found for these two simple presage variables. The negative relationship found between teachers' level of graduate education and achievement in math classes, and between graduate education and students' liking of teachers in English classes bear further study.
- 7. Preparation and attitude toward substitute teachers. While the import of this aspect of teaching is not readily apparent, clear relationships were found between related variables in both achievement and student attitude in math classes, as well as student attitude in English classes. Teacher preparation for substitutes may be a good indicator of teachers' commitments to students' using time productively. It may also say something about teachers' attitudes toward their job.



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